

89 NOV 22 PM 3: 37

OFFICE

One Oak Way Berkeley Heights, NJ 07922-2727 201 771-2000

November 21, 1989

Document Processing Center Office of Toxic Substances, TS-790 U. S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Re: CAIR Submission for Tradename Products

In accordance with the CAIR reporting rule of December 22, 1988, and correspondence from Charles M. Auer, Acting Director of EPA's Existing chemical Assessment Division to John S. Kazazis of AT&T (Dated October 19, 1989), I am submitting the USEPA CAIR Reporting Form for three tradename products. Mr. Auer established November 28, 1989, as AT&T's reporting deadline for this information.

Any questions can be referred to the undersigned at 201-771-4649.

Glenn C. Wightman Senior Engineer

Chemical Substance Control

CONTAINS NO CBI



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Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt: ____

Document

Control Number:

Docket Number: ____

CAIR REPORTING FORM CHECKLIST

THIS CHECKLIST IS NOT REQUIRED TO BE SUBMITTED, IT IS FOR RESPONDENT'S INTERNAL USE ONLY

This form is intended to gather information on a specific listed substance that is manufactured, imported, or processed at one facility. Respondents must answer only those sections or specific questions required in the CAIR rule.

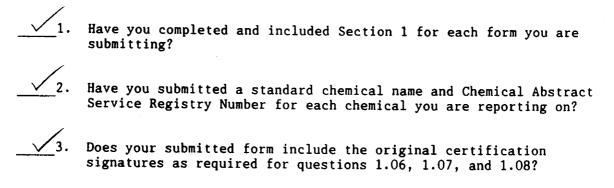
Respondents may use the same form each time they must report. The original copy of the form received by respondents should be kept on file and used to make copies of the questions required to be answered. These copies may then be circulated to those employees who will complete the form. Respondents must submit only one copy of each question rather than compiling parts of each question from various employees and submitting them together as one question.

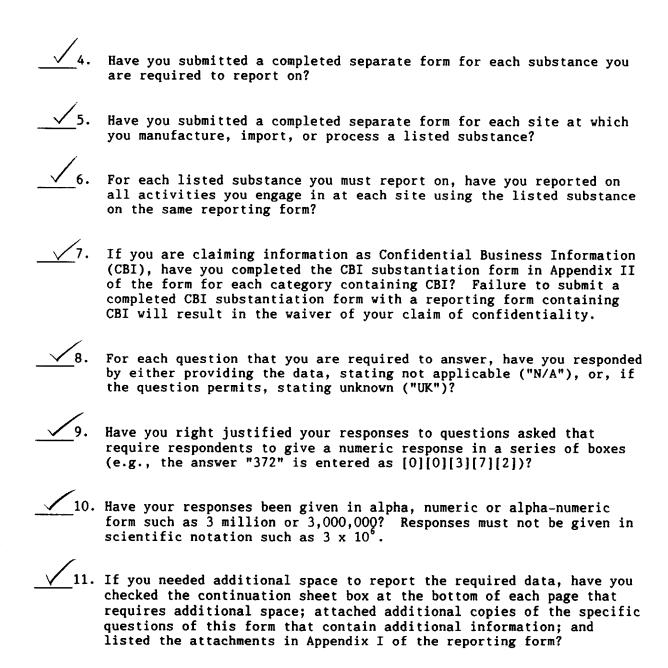
Respondents need only supply information on the form that is "known to or reasonably ascertainable by" the respondent. Refer to the glossary for this definition. All reports with incomplete responses will be assessed as invalid and a Notice of Noncompliance Error Letter and a copy of the question will be sent to you for completion.

Before completing any portion of this form, please read the instruction booklet. The booklet contains general instructions on how to comply with the rule, supplemental instructions and sample answers for many questions, and a glossary containing definitions of key terms. Refer to the glossary whenever an unknown term appears to examine the definition provided.

If you cannot determine your reporting obligations, you should call the TSCA Assistance Office, U.S. EPA, at (202) 554-1404. To obtain additional forms, write to the TSCA Assistance Office (TS-779), ATTN: CAIR Form Request, Office of Toxic Substances, Environmental Protection Agency, Room E-543, 401 M St., SW, Washington, DC 20460, or call at (202) 554-1404.

BEFORE RETURNING YOUR COMPLETED CAIR FORM PLEASE CHECK THE FOLLOWING:





<u>:</u>		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A (GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	CO	npleted in response to the <u>Federal Register Notice of $[\overline{I}]\overline{Z}$</u> $[\overline{Z}]\overline{Z}$ $[\overline{Z}]\overline{Z}$ $[\overline{Z}]\overline{S}$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>	Man	ufacturer 1
[_]	Imp	orter 2
	Pro	cessor3
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
	Mark	(X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an "x/p" designation associated with i in the above-listed Federal Register Notice?					
<u>CBI</u>	Yes					
·,	No [_] Go to question 1.05					
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the <u>Federal Register</u> Notice? Circle the appropriate response.					
	Yes					
	b. Check the appropriate box below: N/A					
	[] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)					
	[] You have chosen to report for your customers [] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are					
 1.05 <u>CBI</u> []	reporting. If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name. Trade name					
	No 2					
1.06 CBI	Certification The person who is responsible for the completion of this form must sign the certification statement below:					
[_]	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."					
	S.L. Oberkrom S.J. Oberheen 11/15/89 NAME SIGNATURE DATE SIGNED					
	Environmental Courdinater (816) 251 - 4186 TITLE TELEPHONE NO.					
[<u></u>]	Mark (X) this box if you attach a continuation sheet.					

1.07 <u>CBI</u> [_]	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.					
	"I hereby certify that, to the information which I have not i to EPA within the past 3 years period specified in the rule."	included i s and is c	n this CAIR Reporting Fo	orm has been submitted		
	NA					
	NAME		SIGNATURE	DATE SIGNED		
	TITLE	(TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION		
1.08 <u>CBI</u>	CBI Certification If you had certify that the following stathose confidentiality claims will company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly available would cause substantial harm to	to protect hese measured by other than disconceeding	ruthfully and accurately have asserted. It the confidentiality oures; the information is persons (other than govery based on a showing) without my company's olsewhere; and disclosure	of the information, s not, and has not vernment bodies) by g of special need in consent; the		
	NA					
	NAME		SIGNATURE	DATE SIGNED		
	TITLE	_ (TELEPHONE NO.			
—, L	Mark (X) this box if you attach					
	mrv (v) chis nox it hon sitscy	a continu	ation sneet.			

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	
[_]	Address []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[_]E]E]^]S]V M M]_]+]_]_]_]]]]]]]]]]]]]]]]
	[<u>M]o]</u> [<u>6]4]o]6]3][]]]] State Zip</u>
	Dun & Bradstreet Number
	EPA ID Number [5]0]기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기기
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $[3]_{\overline{2}}^{\overline{2}}$
	0ther SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [\(\bar{\Bigsigm}\) \(\frac{\Bigsigm}{\Bigsigm}\) \(\Bi
[_]	Address [5]5]0]] MAD 1 Street
	[진]론]교]_]Y]@]R[K]_]_]_]_]_]_]_]_]]]]]]]]]]]]
	Dun & Bradstreet Number $\dots [\underline{c}]\underline{c}]-[\underline{5}]\underline{o}]\underline{o}]-[\underline{7}]\underline{8}]\underline{3}]\underline{4}$
	Employer ID Number
<u>_</u>]	Mark (X) this box if you attach a continuation sheet.

Parent Company Identification NA
Name []]]]]]]]]]]]]]]]]]
(_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
[_]_] [_]]]]]]]]-[[]]]]] State
Dun & Bradstreet Number
Technical Contact
Name $[\underline{G}]\underline{L}]\underline{E}]\underline{N}]\underline{N}]\underline{-}]\underline{C}]\underline{-}]\underline{\omega}]\underline{T}[\underline{G}]\underline{H}]\underline{T}[\underline{M}]\underline{A}]\underline{N}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]-$
Title [S]E]N]I]O]R]]E]N]G]I]N]E]E]R]]]]]A]T]&]T]]
Address [문]쩐]_]코]교]&]፲]፲]6]_]_]_] <u> </u>]이지[티]]0]전[K] [][0]전[K] [][0]전[K] [][0]전[K] [][0][전[K] [][0][X][K] [][0][X][K] [][0][X][K] [][X][K] [][X][K] [][X][K] [X][K] [X](K] (X](K] (
[<u>B]E]R]K]E]L]E]Y]_]H]E]Ţ]G]H]F]S]_]_]_]]]]]]]]</u>
$[\underline{N}]\overline{S}$ $[\underline{O}]\overline{7}]\underline{q}$ $[\underline{Z}]\underline{Z}$ $[\underline{Z}]\overline{7}$ $[\underline{Z}]\overline{7}$
Telephone Number[고] <u></u> []-[<u>키</u>] <u>7</u>] <u>7</u>]-[<u>坪][</u> <u>9</u>]
This reporting year is from

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: $\bigvee \triangle$
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]_]_]_ State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: \mbox{NA}
CBI	Name of Buyer [_]]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number[_]_]_]_[_]_]_[_]]_]_[]]
, ~	rark (x) this box if you attach a continuation sheet.
	a continuation sheet.

]	Classification	uantity (kg
J	Manufactured	
	Manufactured	
	Imported	
	Processed (include quantity repackaged)	<u></u>
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	
	For on-site use or processing	AM
	For direct commercial distribution (including export)	NA
	In storage at the end of the reporting year	
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	21.6
	Processed as a reactant (chemical producer)	NA
	Processed as a formulation component (mixture producer)	NA
	Processed as an article component (article producer)	64.7
	Repackaged (including export)	NA
	In storage at the end of the reporting year	21.6

[7	Mixture If the listed substate or a component of a mixture, prochemical. (If the mixture component chemical for all	ovide the following in position is variable, r	nformati	ion for eac	h component
]	Component Name	Supplier Name		Compositie (specify	rage % on by Weight precision, 45% <u>+</u> 0.5%)
	Toluene Diisocyanate	CAS CHEM, I	<u>vc</u>		°/ ₀
•	Unknown	()		90	%
				Total	100%
				10141	200%

SECTION 2 MANUFACTURER, IMPORTER, AND PROCESSOR VOLUME AND USE
State the total number of years, including the reporting year, that your facility has manufactured, imported, or processed the listed substance.
Number of years manufactured yrs.
Number of years imported yrs.
Number of years processed yrs.
State the quantity of the listed substance that your facility manufactured, imported, or processed during the corporate fiscal year preceding the reporting year.
Year ending [_]_] [_]_] Mo. Year
Quantity manufactured kg
Quantity imported kg
Quantity processed kg
State the quantity of the listed substance that your facility manufactured, imported, or processed during the 2 corporate fiscal years preceding the reporting year in descending order.
Year ending []_] []_] Mo.
Quantity manufactured kg
Quantity imported kg
Quantity processed kg
Year ending
Quantity manufactured kg
Quantity imported kg
Quantity processed kg
Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufor processed during the 3 corporate fiscal years preceding the repodescending order.	actured, impor orting year in	ted
CBI			
[_]	Year ending	[<u></u>] <u>之</u>] [<u>寰</u> Mo. Ye	J <u>⊤</u> ear
	Quantity manufactured	NA	_ k
	Quantity imported	NA	_ kį
	Quantity processed	107.8	_ kį
	Year ending	[<u>]</u>] <u>2</u>] [<u>8</u>] Mo. Ye	ا <u>ن</u> ear
	Quantity manufactured	NA	k٤
	Quantity imported		
	Quantity processed	86.3	_ kg
	Year ending	・・・「 <u>」</u> 」 Mo・ Ye	J∑ ear
	Quantity manufactured	NA	_ ke
	Quantity imported	NA	_ kg
	Quantity processed	&6. 3	_ kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types. N/A	Circle all	
[_]	Continuous process		1
	Semicontinuous process		
	Batch process		
	batch process	•••••	
[_]	Mark (X) this box if you attach a continuation sheet.		

Δ	anufacturing or batch processor ty of the lister after your curson the reporting the summary of	processing the , do not answer	e listed er this kg/yr kg/yr efiscal ection ling (kg)
e capacity for ma manufacturer or where a possible control of the	anufacturing or batch processor ty of the lister after your curson the reporting the summary of	processing the , do not answer , do not answer do not answ	e listed er this kg/yr kg/yr efiscal ection ling (kg)
e capacity for ma manufacturer or where a possible control of the	anufacturing or batch processor ty of the lister after your curson the reporting the summary of	processing the , do not answer , do not answer do not answ	e listed er this kg/yr kg/yr efiscal ection ling (kg)
e capacity for ma manufacturer or which see - N/A erease the quantices at any time decrease based upon the company of the com	anufacturing or batch processor ty of the lister after your current the reporting the state of	processing the control of the control of the corporate g year's produced and the corporate g year's p	e listed er this kg/yr kg/yr efiscal ection ling (kg)
e capacity for ma manufacturer or which see - N/A erease the quantices at any time decrease based upon the company of the com	anufacturing or batch processor ty of the lister after your current the reporting the state of	processing the control of the control of the corporate g year's produced and the corporate g year's p	e listed er this kg/yr kg/yr efiscal ection ling (kg)
rease the quantiessed at any time eccurring ty (kg)	ty of the liste after your cur on the reporting the function that it is a continuate to the continuation of the continuation o	d substance rent corporate g year's produ Process Quantity	kg/yr kg/yr kg/yr fiscal ction
erease the quanticessed at any time lecrease based upon the cturing ty (kg)	ty of the liste after your curson the reporting the suantity (kg)	UA d substance rent corporate g year's produ Process Quantity	kg/yr kg/yr fiscal ction ing (kg)
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erease the quanticessed at any time decrease based upon the decrease based upon ty (kg)	ty of the lister after your curson the reporting transfer (kg)	d substance rent corporate g year's produ Process Quantity	kg/yr efiscal ection eing (kg)
erease the quantiessed at any time lecrease based up cturing ty (kg)	ty of the liste after your curson the reporting fuantity (kg)	d substance rent corporate g year's produ Process Quantity	fiscal ction
essed at any time lecrease based up to the cturing ty (kg)	e after your cur on the reporting Importing Quantity (kg)	rent corporate g year's produ Process Quantity	ing (kg)
ty (kg) 0	wantity (kg) ルム	Quantity	(kg)
		NA	
4	NA	64.7	No lo
			use m

2.09	O9 For the three largest volume manufacturing or processing process types involving the listed substance, specify the number of days you manufactured or processed the list substance during the reporting year. Also specify the average number of hours per day each process type was operated. (If only one or two operations are involved, list those.)					
[<u>]</u>]				Average Hours/Day		
	Process Type #1	(The process type involving the largest quantity of the listed substance.)				
		Manufactured	NA	<u> NA</u>		
		Processed	120			
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)				
		Manufactured	NA	NA		
		Processed	NA	NA		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)				
		Manufactured	NA_	NA		
		Processed	<u> N4</u>	<u> </u>		
2.10 CBI [_]	substance that we chemical. Maximum daily in Average monthly	am daily inventory and average monthly inventory was stored on-site during the reporting year in inventory	the form of	ted a bulk kg kg		
1	Mark (X) this bo	x if you attach a continuation sheet.				

CAS	No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or Impurities
		UNKNOWN -UK			
	_		<u> </u>		
	_	The state of the s			

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

a.	h.		_	L
Product Types ¹	b. % of Quantity Manufactured, Imported, or Processed		c. % of Quantity Used Captively On-Site	dType of End-Users ²
<u> </u>	100	_	100	CM
		_		
A = Solvent				e/Rubber and additive
B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh 2 Use the following code I = Industrial	c/Accelerator/ cer/Scavenger/ c/Sequestrant c/Degreaser n modifier/Antiwear dier desive and additives	N = 0 = P = Q = R = S = U = V = X = type	Photographic/Repand additives Electrodeposition Fuel and fuel add Explosive chemica Fragrance/Flavor Pollution control Functional fluids Metal alloy and a Rheological modifi Other (specify)	als and additives chemicals chemicals s and additives additives

3	Expected Product Types Identify all product types which you expect to manufacturing import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacturing process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)				
	a.	b.		c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-User
		NOT APPLI		E - N/A	
	¹ Use the following code A = Solvent B = Synthetic reactan C = Catalyst/Initiator Sensitizer	t	L = 1 M = 1 N = 1	Moldable/Castable Plasticizer Dye/Pigment/Colo	rant/Ink and additi
	<pre>A = Solvent B = Synthetic reactan C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagen F = Chelator/Coagulant G = Cleanser/Detergen H = Lubricant/Friction agent</pre>	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear	L = I M = I N = I O = I Q = I R = I S = I U = I	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Represent and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluids	als and additives chemicals l chemicals s and additives
	A = Solvent B = Synthetic reactand C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagend F = Chelator/Coaguland G = Cleanser/Detergend H = Lubricant/Friction agent I = Surfactant/Emulsid J = Flame retardant	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear	L = I M = I N = I O = I Q = I R = I S = I U = I V = M	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Represent and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluids Metal alloy and a	rant/Ink and additi rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives
	<pre>A = Solvent B = Synthetic reactan C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagen F = Chelator/Coagulant G = Cleanser/Detergen H = Lubricant/Friction agent I = Surfactant/Emulsif</pre>	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier nesive and additives	L = I M = I N = I O = I Q = I R = I S = I U = I V = M W = F	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Represent and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluids Metal alloy and a Rheological modification	rant/Ink and additi rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives

	b.	c. Average %	d.	
. 1	Final Product's	Composition of Listed Substance	Type of	
Product Type ¹	Physical Form ²	in Final Product	End-User	
	<u> </u>	0 %	<u> </u>	
¹ Use the following c	odes to designate pro	oduct types:	·	
A = Solvent	odes to designate pro	L = Moldable/Castable	·/Rubber and ad	
B = Synthetic reacta	ant	M = Plasticizer	, moder and ac	
C = Catalyst/Initia		N = Dye/Pigment/Color	ant/Ink and ad	
Sensitizer		0 = Photographic/Repr		
D = Inhibitor/Stabi	lizer/Scavenger/	and additives	•	
Antioxidant	Ü	P = Electrodeposition	/Plating chemi	
E = Analytical reag	ent	Q = Fuel and fuel add		
F = Chelator/Coagul		R = Explosive chemica		
G = Cleanser/Deterg		S = Fragrance/Flavor		
G = Cleanser/Deterg	ent/begleaser ion modifier/Antiwear			
	ion modifier/Antiwear			
agent		U = Functional fluids		
I = Surfactant/Emul		V = Metal alloy and a		
J = Flame retardant		W = Rheological modif	ier	
_		es X = Other (specify)		
'Use the following c A = Gas		e final product's physic estalline solid	al form:	
B = Liquid	F3 = Gra			
C = Aqueous solution		nules er solid		
D = Paste	G = Gel			
E = Slurry		er (specify)		
F1 = Powder	n = 00	cr (specify)		
³ Use the following codes to designate the type of end-users:				
Use the following co	00 0	sumer		
Use the following co	CS = Con			
	CS = Con H = Oth	er (specify)		

2.15 CBI	Circ list	le all applicable modes of transportation used to delive ed substance to off-site customers. NOT APPLICABLE	r bulk shipments	of the					
[_]	Truc	k	• • • • • • • • • • • • • • • • • • • •	1					
	Railcar 2 Barge, Vessel 3 Pipeline 4								
		e							
		r (specify)		_					
2.16 CBI	or por of en	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for unduse listed (i-iv). gory of End Use	e used by your cususe under each ca	stomers tegory					
	i.	Industrial Products							
		Chemical or mixture	40	kg/yr					
		Article							
	ii.	Commercial Products							
		Chemical or mixture	0	kg/yr					
		Article		_					
	iii.	Consumer Products		_					
		Chemical or mixture	NA	kg/yr					
		Article							
	iv.	Other -							
		Distribution (excluding export)	NA	kg/vr					
		Export		kg/yr					
		Quantity of substance consumed as reactant		_ kg/yr					
		Unknown customer uses		_ kg/yr					
		_	1-44	_ _{K8//} J1					
J	Mark	(X) this box if you attach a continuation sheet.							

BI	State the quantity of the listed substance that you exported year.	 spor (Ting
<u>_</u>]	In bulk	kg/
	As a mixture	
	In articles	

PART	PART A GENERAL DATA				
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	es are treated -	e purchages		
	Source of Supply	Quantity (kg)	Average Price (\$/kg)		
	The listed substance was manufactured on-site.	NA	AU		
	The listed substance was transferred from a different company site.	NA	NA		
	The listed substance was purchased directly from a manufacturer or importer.	64.7	1.00		
	The listed substance was purchased from a distributor or repackager.	NA	NA		
	The listed substance was purchased from a mixture producer.	NA	NA		
3.02 CBI	Circle all applicable modes of transportation used to your facility. Truck				

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums
		Pipeline 9
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders
		Tank rail cars
		Tank trucks NA mmHg
-		
[_]	Mari	x (X) this box if you attach a continuation sheet.

If you obtain the listed substance in the form of a mixture, list the trade name(of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of th average percent composition by weight of the listed substance in the mixture, and amount of mixture processed during the reporting year.					
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amoun Process (kg/yr		
Voeite - 128 M-Z	Cas CHEM, INC	10%	64.7		
	***************************************		,		
		4			
			,		

3.05 CBI []	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, an the percent composition, by weight, of the listed substance.						
		Quantity Used(kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify ± % precision				
	Class I chemical		10%				
	Class II chemical						
	Polymer						

Gene	ral Instructions:			
If ye	ou are reporting on a mi at are inappropriate to	xture as defined in th mixtures by stating "N	e glossary, reply to A mixture."	questions in Section
noti	questions 4.06-4.15, if ce that addresses the in imile in lieu of answeri	formation requested, v	ou may submit a copy	abel, MSDS, or other or reasonable
PART	A PHYSICAL/CHEMICAL DA	TA SUMMARY		
4.01 <u>CBI</u>	Specify the percent pu substance as it is man substance in the final import the substance,	ufactured, imported, or product form for manu:	r processed. Measure facturing activities.	the purity of the at the time you
·—·		Manufacture	Import	Process
	Technical grade #1	NA % purity	NA % purity	Unknown purity
	Technical grade #2	NA % purity	NA % purity	UNKNOWN % purity
	Technical grade #3	<u>NA</u> % purity		
	_	city of listed substanc		
4.02	Submit your most recent substance, and for ever an MSDS that you develo	y formulation containi	ng the listed substar	nce. If you possess
4.02	Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when	ry formulation containi oped and an MSDS develo her at least one MSDS	ng the listed substar oped by a different so has been submitted by	nce. If you possess ource, submit your or circling the
4.02	Submit your most recent substance, and for ever an MSDS that you develowersion. Indicate when appropriate response. Yes	ry formulation containing ped and an MSDS develone there at least one MSDS	ng the listed substare ped by a different so has been submitted by	nce. If you possess ource, submit your vircling the
4.02	Submit your most recent substance, and for ever an MSDS that you develowersion. Indicate when appropriate response. Yes	ry formulation containing ped and an MSDS develocher at least one MSDS	ng the listed substar pped by a different so has been submitted by	nce. If you possess ource, submit your circling the
4.02	Submit your most recent substance, and for ever an MSDS that you develowersion. Indicate when appropriate response. Yes	ry formulation containing ped and an MSDS development one MSDS development one MSDS development on the management of the	ng the listed substar ped by a different so has been submitted by	nce. If you possess ource, submit your or circling the
4.02	Submit your most recent substance, and for ever an MSDS that you develowersion. Indicate when appropriate response. Yes	ry formulation containing ped and an MSDS development one MSDS development one MSDS development on the management of the	ng the listed substar ped by a different so has been submitted by	nce. If you possess ource, submit your or circling the

Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
Yes 1
No

For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

	Physical State						
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas		
Manufacture	1	2	3	4	5		
Import	1	2	3	4	5		
Process	. 1	. 2	3	4	5		
Store	1	2	3	4	5		
Dispose	1	2	3	4	5		
Transport	1	2	3	4	5		

[] Mark (X) this box if you attach a continuation sheet.

Physical State		Manufacture	Import	Process S	tore Dispose	Tr
Dust	<1 micron		NOT	APPLIC	GBLE	
	1 to <5 microns					_
	5 to <10 microns					
Powder	<1 micron		NOT	APPLI	CABLE	
	1 to <5 microns					_
	5 to <10 microns					
Fiber	<1 micron		NOT	APPLI	CABLE	
	1 to <5 microns					
	5 to <10 microns					_
\erosol	<1 micron		NOT	APPLIC	ABCE	,
	1 to <5 microns					
	5 to <10 microns					

4.06	For each physical state of the listed substance, specify the corresponding flashpoint, and the test method used to derive the flashpoint value.	
	Solid	
X	Flashpoint	0
	Test method	
	Liquid	
	Flashpoint	0
	Test method	
	Gas/Vapor	
	Flashpoint	٥(
	Test method	
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.	
	Yes	1
	No	2
4.07	Indicate the temperature at which the listed substance undergoes autopolymerization or autodecomposition.	า
(Autopolymerizes at	٥٥
	Autodecomposes at	°C
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.	
	Yes	1
	No	2

4.08	Indicate the flammable limits in air (% by volume) for the listed su standard temperature and pressure.	bstance at
×	Lower limit	
	Indicate if hazard information/MSDS has been submitted in lieu response by circling the appropriate response.	of
	Yes	

	Product	Types	Containin	g the I	Listed	Subst		
Extinguishing Media	_1_	2	3	4	5	6		
Water		<u> </u>						
Foam								
CO2		. <u></u>						
Dry chemical (e.g., sodium bicarbona	:e)							
Halogenated hydrocarbon (e.g., carbon tetrachloride, methyl bromide)								
Other (specify)								
Indicate if hazard information/M response by circling the appropr	ISDS has be iate respo	en sul nse.	omitted in	lieu o	f			
Yes								
No	• • • • • • • • •		• • • • • • • • •	· • • • • • •	• • • • • •			
					•			
¹ Identify the product types listed un Product Type No.	-		roduct Typ	e Iden	tity			
	- Control of the Cont		roduct Typ	e Iden	tity			
Product Type No.			roduct Typ	e Iden	tity			
Product Type No.			roduct Typ	e Iden	tity			
Product Type No. 1 2			roduct Typ	e Iden	tity			
Product Type No. 1 2 3			roduct Typ	e Iden	tity			
Product Type No. 1 2 3 4			roduct Typ	e Iden	tity			
Product Type No. 1 2 3 4 5			roduct Typ	e Iden	tity			
Product Type No. 1 2 3 4 5			roduct Typ	e Iden	tity			
Product Type No. 1 2 3 4 5			roduct Typ	e Iden	tity			
Product Type No. 1 2 3 4 5			roduct Typ	e Iden	tity			

	Special Firefighting Procedures Identify (Y/N/NA/UK) all known restrictions of firefighting procedures used to combat fires caused by each product type which contains the listed substance. (Refer to the instructions for definitions of Y, NA and UK.)								
×			_				1		
		Product	Types Co	ontainin	g the L	isted S	Substance ¹		
	Special Firefighting Procedures	1		3	4	5	6		
	Do not use water								
	Do not increase air pressure								
	Other (specify)								
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.								
	Yes		• • • • • • •				1		
	No	• • • • • • •				• • • • • • • •	2		
	Identify the product types listed under Product Type No. 1 2 3 4 5			et Type			table:		
	6								
_[-1	Mark (X) this box if you attach a continuous	nuation s	sheet.	<u> </u>					

X	example.)
	CAS No. Name Reaction (specify)
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.
	Yes
	No
2	Autoxidation Is the listed substance capable of autoxidation? Circle the appropriate response.
	Yes
	No
	Unknown
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.
	Yes
	No

4.13	Indicate the autoignition temperature for the listed substance and the test method used to derive this value.						
	Autoignition temperature Test method Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.						
×							
	Yes						
	No	;					
4.14	Vapor in Cargo Tanks If storing the listed substance in a cargo tank causes vapor problems, such as peroxide formation, reaction with moisture, etc., specify the problem and necessary controls or restrictions used to remedy each problem.	_					
	Vapor Problem Controls/Restrictions						
*	Peroxide formation						
	Reaction with moisture						
	Combustion						
	Other (specify)						
	Indicate if hazard information/MSDS has been submitted in lieu of response by circling the appropriate response.						
	Yes	1					
	No	2					
	Mark (X) this box if you attach a continuation sheet.	_					

Name of Additive	Inhibitor or Stabilizer ¹	Amount Normally Added (ppm or %)	Duration of Effectivene (specify units)
Indicate if hazard information response by circling the approximation of the information	oropriate response.		•••••
¹ Use the following codes to design I = Inhibitor S = Stabilizer	nate inhibitor and s	stabilizer:	

[] Mark (X) this box if you attach a continuation sheet.

SECTION	5	ENVIRONMENTAL FA	TF
DECLION		PHATUMMENTAL LA	

Ind	licate the rate constants for the following tra	nsformation processes	•
a.	Photolysis: NoT	AVOILABLE - UI	N KNOW N
	Absorption spectrum coefficient (peak)	uк_ (1/M cm) at	nm
	Reaction quantum yield, 6	uk at	nm
	Direct photolysis rate constant, k_p , at	икl/hr	latitude
b.	Oxidation constants at 25°C:		
	For ¹ 0 ₂ (singlet oxygen), k _{ox}	uĸ	1/M h
	For RO ₂ (peroxy radical), k _{ox}	uĸ	1/M h
c.	Five-day biochemical oxygen demand, BOD ₅	цK	mg/l
d.	Biotransformation rate constant:		
	For bacterial transformation in water, $k_b \dots $	uk	1/hr
	Specify culture	чк	
e.	Hydrolysis rate constants:		
	For base-promoted process, k _B	ux	1/M h
	For acid-promoted process, k _A	uĸ	1/M h
	For neutral process, k _N	чк	1/hr
f.	Chemical reduction rate (specify conditions)_	uk	
		ul	

[_]	Mark (X) this box if you attach a continuation sheet.
	35

PART	В	PARTITION COEFFICIENTS			
5.02	a.	Specify the half-lif	e of the listed subst	tance in the followi	ng media.
		<u>Media</u>		Half-life (speci	fy units)
		Groundwater		. WX	
		Atmosphere		иĸ	
		Surface water		1. W	
		Soil		uк	
	b.	Identify the listed s life greater than 24	substance's known tra hours.	nsformation products	s that have a half-
		CAS No.	Name	Half-life (specify units)	<u>Media</u>
			<u>uk</u>	_	in
			<u>u K</u>		in
			uk		in
			<u>uk</u>		in
5.03	Meti Spec	cify the octanol-water nod of calculation or cify the soil-water pa	determination	κωκ	<u>ಸಂಎಸ</u> at 25°C
5.05	Spec	rify the organic carbo ficient, K _{oc}	n-water partition	ung	at 25°C
5.06	Spec	ify the Henry's Law C	onstant, H	UNK,	ായപ atm-m³/mole
	Mark	(X) this box if you	attach a continuation	sheet.	

Bioconcentration Factor	ntration Factor Species	
	uc	
	ЦΚ	
	Uζ	
¹ Use the following codes to des	ignate the type of test:	
F = Flowthrough S = Static		

	SECTION 6 ECONOMIC AND FINANCIAL INFORMATION	
6.01	Company Type Circle the number which most appropriately desc	ribes your company.
<u>CBI</u>	Corporation	
	Sole proprietorship	
	Partnership	3
	Other (specify)	4
6.02 CBI	At the end of the reporting year, were you constructing addition site that were not yet in operation at the end of the reporting now being used or will be used in the future for manufacturing, processing the listed substance? Circle the appropriate response	year, but which are importing, or
[_]	Yes	
	No	2
6.03	List all of the product types that you manufacture that contain as a raw material, and the percentage of the name-plate capacit listed substance that each product type represents. The total percentiles should equal 100 percent. State the total name-pla process type(s) used to manufacture all product types that cont substance.	y dedicated to the of all capacity te capacity of the
[_]		% Total
	Product Type	Capacity
	State the total name-plate capacity of the process type(s) used product types that contain the listed substance:	1 /
[_]	Mark (X) this box if you attach a continuation sheet.	

	the listed substance sold or transfer		
	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
·	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
			
5.05	Substitutes List all known commerci	ally feasible substitute	es that you know evict
281	Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses.	cost of each substitute commically and technology	e. A commercially vically feasible to use
	feasible substitute is one which is ec in your current operation, and which r	cost of each substitute commically and technology	e. A commercially vically feasible to use
	for the listed substance and state the feasible substitute is one which is ed in your current operation, and which r performance in its end uses.	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable
	for the fisted substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable Cost (\$/kg)
	for the fisted substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable Cost (\$/kg)
	for the fisted substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable Cost (\$/kg)
	for the fisted substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable Cost (\$/kg)
	for the fisted substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitute onomically and technolog esults in a final produc	e. A commercially gically feasible to use at with comparable Cost (\$/kg)

6.06 CBI	State your average total and variable costs of manufacturing, importing, and processing the listed substance during the reporting year. (For an explanation these costs, refer to the instructions.)	of
[_]	Average Total Costs	
λ	Manufacturing	\$/kg
	Importing	
	Processing	
	Average Variable Costs	
	Manufacturing	\$/kg
•	Importing	\$/kg
	Processing	\$/kg
6.07	State your average purchase price of the listed substance, if purchased as a raw material during the reporting year.	
[_]	Average purchase price	\$/kg
6.08 CBI	State your company's total sales and sales of the listed substance sold in bulk the reporting year.	for
[<u>]</u>]	Year ending [_]_] [] []] [ear
	Company's total sales (\$)	
	Sales of listed substance (\$)	
[_]	Mark (X) this box if you attach a continuation sheet.	

6.09 CBI [_]	State your company's total sales and sales of the listed substance the corporate fiscal year preceding the reporting year. (Refer to for question 6.08 for the methodology used to answer this question	the instru	lk for ctions
×	Year ending	·· [_]_]	[_]_] Year
	Company's total sales (\$)		
	Sales of listed substance (\$)		
6.10 <u>CBI</u> []	State your company's total sales and sales of the listed substance the 2 corporate fiscal years preceding the reporting year in descer (Refer to the instructions for question 6.08 for the methodology us question.)	nding order	
X	Year ending	· [_]_]	[]] Year
	Company's total sales (\$)		
	Sales of listed substance (\$)		
	Year ending		[<u>] </u>
	Company's total sales (\$)		
	Sales of listed substance (\$)		
[_]	Mark (X) this box if you attach a continuation sheet.		

SECTION	7	MANUFACTURING	AND	PROCESSING	INFORMATION

General Instructions:

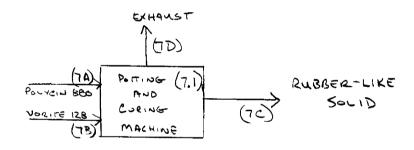
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.
CBI

Process type

POTTING



7.02	In accordance with the instructions, provide a separate process block flow diagram showing each of the three major (greatest volume) process types involving the list substance.
CBI	substance.
[_]	Process type

7.03	process which, it treated from one for ques	emissior if combir before e process stion 7.0	n streams ned, would emission i s type, pr)1. If al	and emissi total at nto the en ovide a pr l such emi lock flow	on points least 90 vironment ocess blo ssions ar diagram s	that copercent If al ck flow e releas howing e	ontain the of all fall such endingram to diagram to diagram to ach procession of the such p	e listed sacility endissions and issions and issions the nore than ess type and issing the sacreture.	gram showing all substance and missions if not are released instructions one process as a separate
_1	Process	type	· · · · ·	NI	4 - em	issions	2290	percent	of fecility emission
									emission

7.04 CBI	process block	typical equipment type flow diagram(s). If ess type, photocopy th	a process block flo	w diagram is prov	rided for more
[_]	Process type	POTTIN	G-		
	Unit Operation ID Number	Typical Equipment Mixer	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
				Almospheric	Stainless St
					
					
					
		box if you attach a co			

_1	Process type	·· POTT, NG		
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr
	7A	RAW CHEMICAL	<u> </u>	64.7
		RAW CHEMICAL	OL	64.7
	7C	POTING COMPOUND	50	uk
		System. Exhaust	GU	<u>ur</u>
				-
			****	****
				-81-7
	GC = Gas (condensib GU = Gas (uncondens SO = Solid SY = Sludge or slur AL = Aqueous liquid OL = Organic liquid		nd pressure) and pressure)	
			90% water, 10% toluene)

[_]	Process type POTING										
	a.	b.	c.	d.	e.						
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)						
	_7A	Polycin 880	100 Aw	NONE	NA						
	73	VORITE 128	100 Aw	2025	NA						
	<u> 7</u>	ばさだりのと と	NA	NA	NA						
	70	AIR Toluene Diisocyanate	>99.99.	Cuochan							
.06	continued be	elow									

/.vo (continued	7	.06	(continued)	١
-----------------	---	-----	-------------	---

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive ckage Number	Components of Additive Package	Concentrations (% or ppm)
1	NA	
	1	
_		
2		
3		
4		
_		
5		

	\checkmark	

²Use the following codes to designate how the concentration was determined:

[_]	Mark (X)	this	box if	you att	ach a	a continuation	sheet.		

A = Analytical result

E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

SECTION 8 RESIDUAL TREATMENT GENERATION, CHARACTERIZATION, TRANSPORTATION, AND MANAGEMENT

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

₁ — ₁	Mark	(X)	thic	hov	if	עמוו	attach	9	continuation	sheet	
r1	nark	(")	CIIIS	UUA		you	actach	a	continuation	i sileet.	

8.01 <u>CBI</u>	In accordance with the which describes the tre	instructions, prov atment process use	vide a residual e ed for residuals	reatment block flow identified in quest	diagram ion 7.01
[_]	Process type	N/A			
•					

question 7.02.		treatmen	t proces	ses used	for res	idual	identif	ow diagram Tied in
	•							
Process type								
	Process type							

8.03 × <u>CBI</u>	In accordance with the which describe each of question 7.03.	instructions, the treatment	provide residual to processes used for	reatment block flow d residuals identified	iagram(s) in
[_]	Process type				
[_]	Mark (X) this box if you	ı attach a con	tinuation sheet.		

8.04 > CBI	residual treatment block flow di	types for each unit operation identified in your lagram(s). If a residual treatment block flow an one process type, photocopy this question and process type.
	Process type	
	Unit Operation ID Number (as assigned in questions 8.01, 8.02, or 8.03)	Typical Equipment Type

8.05 <u>CBI</u>	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than o process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)									
[_]	Process	type		NA						
	a.	b.	c.	d.	е.	f.	g.			
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (% or ppm)			
				NA						

				*						
		19003								
3.05	continue	d below								

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	NA	NA
2		
3		
3		
4		
5		

 $^{^4}$ Use the following codes to designate how the concentration was determined:

A = Analytical result

8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

E = Engineering judgement/calculation

8.05	(con	tinued)	ı

 5 Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	<u>Method</u>	Detection Limit (± ug/l)
_1	NA	
_2	,	-
_3		
_4		
_5		
6		

[_] Mark (X) this box if you attach a continuation sheet.

Process	type	• • •	N/A			
а.	b.	c.	d.	е.	f. Costs for	g
Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Off-Site Management	Chang Manag Meth
			NA			
			-			
					,	
		100 to	—			
				esignate the waste esignate the manage		

EXHIBIT 8-2. (continued)

MANAGEMENT METHODS

17WT Ferrous sulfate 18WT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)
19WT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical 22WT Other emulsion breaking

Adsorption 23WT Carbon adsorption 24WT Ion exchange 25WT Resin adsorption 26WT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation
30WT Thermal
31WT Solar
32WT Vapor recompression
33WT Other evaporation

Filtration
34WT Diatomaceous earth
35WT Sand
36WT Multimedia
37WT Other filtration

Sludge dewatering
38WT Gravity thickening
39WT Vacuum filtration
40WT Pressure filtration (belt, plate
and frame, or leaf)
41WT Centrifuge
42WT Other sludge dewatering

Air flotation 43WT Dissolved air flotation 44WT Partial aeration 45WT Air dispersion 46WT Other air flotation

Oil skimming 47WT Gravity separation 48WT Coalescing plate separation 49WT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52WT Activated sludge
53WT Fixed film-trickling filter
54WT Fixed film-rotating contactor
55WT Lagoon or basin, aerated
56WT Lagoon, facultative
57WT Anaerobic
58WT Other biological treatment

Other wastewater treatment
59WT Wet air oxidation
60WT Neutralization
61WT Nitrification
62WT Denitrification
63WT Flocculation and/or coagulation
64WT Settling (clarification)
65WT Reverse osmosis
66WT Other wastewater treatment

OTHER VASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

ACCUMULATION

1A Containers 2A Tanks

STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

DISPOSAL

- 1D Landfill
- 2D Land treatment
- 3D Surface impoundment (to be closed as a landfill)
- 4D Underground injection well

¹Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60WT).

B.07 CBI	process bloc	ntify any special handling instructions for the residuals identified in your cess block or residual treatment block flow diagram(s). (Refer to the tructions for an example.)					
·—,	Stream						
	ID Code	Specia	l Handling Instructions				
			•				
.08	Identify thos	se construction materials tha	it are recommended (compatible) for				
3.08 EBI	containing or could cause a used to conta	transporting the listed substantial transporting the listed substantial transport transp					
	containing or could cause a used to conta	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				
	containing or could cause a used to conta Stream ID	transporting the listed substantial transporting the listed substantial transport transp	estance, and those materials that you know ficant corrosion (incompatible) if they are substance.				

8.09 <u>CBI</u>	quantity that eac	-site facility (including POTW or process block or residual tr h managed during the reporting ately for each off-site facili	reatment block flow diagram(s), and the
LJ		Stream ID Code	Annual Quantity (kg)
	Facility Name [_		
	Address [[[_	[[[[[[[[
	[_[_[[[_[_[_[_[_[_[_[_[[[[[
		[<u> </u>	
	EPA Identification Hazardous Waste Fa	Number (i.e., cility ID Number)	
	Mark (X) this box :	if you attach a continuation s	heet.

10	Identification Permit Numbers Li for your facility.	st any applicable identifica	tion or permit numbers
	EPA National Pollutant Discharge El (NPDES) Permit No.(s) (discharges to surface water)	imination System	
	EPA Underground Injection Well (UIC) Permit No.(s)	••••••	
	EPA Point Source Discharge (PSD) Permit No.(s)	••••••••••••	
	EPA Hazardous Waste Management Facility Permit No.(s)	•••••••••	
	Other EPA Permits (specify)		
		••••••	

8.11 CBI	largest (Storage or Treatm (by volume) piles ed in your proces	that are u	sed on-site	to store or	treat the residu	uals
[_]		Quantity Managed	Under Roofed	Type of Contain-	Synthetic Liner	Frequency of Transfer and/or	Stream
	Pile	<pre>per Year (cubic meters)</pre>	Structure (Y/N)	ment Provided ¹	Base $(Y/N)^2$	Handling Operations ³	ID Code
	1						
	2						
	3						
	4				-		
	5						
	Use the C = Com con P1 = Par P2 = Par N = Non Waste may clay lay Use the operation A = Dail B = Week C = Monti	y lie directly oner following codes ns: y	to designate both dike co just dike co just underg	e the type of type	f containmen nd undergrou hate) contai r the liner	t provided: nd (leachate) nment) nay be covered w	
	Mark (X)	this box if you a	attach a con	tinuation sh	neet.		

Tank	Design Capacity (liters)	Quantity per Year (liters)	Treat- ment Types	Average Length of Storage (days)	Part of Wastewater Treatment Train (Y/N)	Tank Covered (Y/N)	Type of Containment Provided ³	Stream ID Code
1								
2								
3								·
4								
5								
Y	es		• • • • • • • • • •	••••••			1	
	0	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••	_	
N ¹ Indica	0	age or use					2	3) to
N Indica design Treatm	o te "S" for stor	rage or use Types	the codes p	provided in E		hich follow	2	
N Indica design Treatm public	o te "S" for stor ate treatment t ent train from	rage or use Types which waste	the codes p	orovided in E	xhibit 8-3 (w	hich follow	2	

	Design Capacity	Quantity Stored per Year	Treat- ment,	Average Length of Storage	Average Daily Stored Quantity	A	Storage Base	Stre: ID
Container	(liters)	(liters)	Types	(days)	(liters)	(liters)	Material ²	Cod
1								
2						-		
3				JE 1114 . 1				
4		-						
5								
No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	•••••	• • • • • • • • • •	2		
	"S" for storag	e and use the	codes provi	ded in Exhibi	 t 8-3 to de	signate treat	ment types	
¹ Indicate) in narenth	nesis whether	the storage	area is desi	gned and ope	erated
If resid	ual is stored, and contain sur		, in parent					
If resid collect	ual is stored,	face runoff	·					
If resid collect	ual is stored, and contain sur following codes rete alt	face runoff	·					

EXHIBIT 8-3 [REFERS TO QUESTIONS 8.12, 8.13, AND 8.29]

VASTEVATER TREATMENT TYPES

VASTEVATER TREATMENT

Equalization1WT Equalization

Cyanide oxidation

2VT Alkaline chlorination

3VT Ozone

4WT Electrochemical

5WT Other cyanide oxidation

General oxidation (including disinfection)

6WT Chlorination 7WT Ozonation 8WT UV Radiation

9WT Other general oxidation

Chemical Precipitation¹

10WT Lime

11WT Sodium hydroxide

12WT Soda ash 13WT Sulfide

14WT Other chemical precipitation

Chromium reduction

15WT Sodium bisulfite

16WT Sulfur dioxide

17WT Ferrous sulfate

18WT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)

19WT Complexed metals treatment

Emulsion breaking

20VT Thermal

21VT Chemical

22WT Other emulsion breaking

Adsorption

23WT Carbon adsorption

24WT Ion exchange

25WT Resin adsorption

26WT Other adsorption

Stripping

27WT Air stripping

28WT Steam stripping 29WT Other stripping

Bvaporation 30VT Thermal

31WT Solar

32WT Vapor recompression

33WT Other evaporation

Filtration

34WT Diatomaceous earth

35WT Sand

36VT Multimedia

37WT Other filtration

Sludge devatering

38WT Gravity thickening

39WT Vacuum filtration

40WT Pressure filtration (belt, plate

and frame, or leaf)

41WT Centrifuge

42WT Other sludge dewatering

Air flotation

43WT Dissolved air flotation

44WT Partial aeration

45WT Air dispersion

46WT Other air flotation

Oil skimming

47WT Gravity separation

48VT Coalescing plate separation

49WT Other oil skimming

Other liquid phase separation

50WT Decanting

51WT Other liquid phase separation

Biological treatment

52WT Activated sludge

53WT Fixed film--trickling filter

54WT Fixed film--rotating contactor

55WT Lagoon or basin, aerated

56WT Lagoon, facultative

57WT Anaerobic

58WT Other biological treatment

Other wastewater treatment

59WT Wet air oxidation

60WT Neutralization

61WT Nitrification

62WT Denitrification

63WT Flocculation and/or coagulation

64WT Settling (clarification)

65WT Reverse osmosis

66WT Other wastewater treatment

¹Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60WT).

]			Average	Average Fuel	
			Boiler Load ²	Replacement Ratio ³	Strea ID
Boile	r	Boiler Type ¹	<u>(%)</u>	(%)	Code
1	-				
2					
3					
4					****
5					
ſ	No	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
¹ Use th	ne following				
¹ Use th F = Fi W = Wa	ne following ire tube iter tube	codes to designate	boiler type:	·	·
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	у)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	·	у)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	у)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	у)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	y)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	y)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	y)
¹ Use th F = Fi W = Wa ² Design	ne following ire tube iter tube	codes to designate	boiler type:	(percent of capacit	у)

on-site to bu	rn the residua	e for the five largest (by ls identified in your proce	capacity) boilers that are used ess block or residual treatment			
Boiler		Boiler Heat Capacity (heat input in kJ/hr)	Primary Boiler Fuel ¹			
		<u> </u>				
		The state of the s				
4		-				
Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.						
Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1			
No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	2			
Use the following A = Oil B = Gas C = Coal	D = Wood					
	on-site to but block flow did block flow flow flow flow flow flow flow flow	on-site to burn the residua block flow diagram(s). Boiler 1 2 3 4 5 Indicate if Office of by circling the approximate to the following codes to A = Oil B = Gas E = Other	on-site to burn the residuals identified in your process block flow diagram(s). Boiler Heat Capacity (heat input in kJ/hr) 1 2 3 4 5 Indicate if Office of Solid Waste survey has been by circling the appropriate response. Yes			

	or residual treatment block flow d	the residuals identified in your process block gram(s) that are burned in on-site boilers.						
CBI	Photocopy this question and complete it separately for each boiler.							
[_]	Boiler number							
	Stream ID code(s)	·····						
		Residual, as Fired (or residual mixture if residuals are blended)	Boiler Fuel, as Fired (residual(s) plus primary fuel)					
	Btu content (J/kg)							
	Average							
	Minimum							
	Total halogen content (% by wt.)							
	Average							
	Maximum							
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.							
	by circling the appropriate r	esponse.	ted. In lied of response					
	by circling the appropriate r	cesponse.						
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					
	by circling the appropriate r	esponse.	1					

8.17 <u>CBI</u>	on-site	te the following to burn the nafeton diagram(s)	esiduals i	or the five dentified :	largest (by in your proc	capacity) less block of	boilers r residu	that are used al treatment
[_]	Boiler		ream ID ode		Listed Metal ¹		Cor	l Metal ntent weight) <u>Max.</u>
	_1							
	0							
		-						
								<u></u>
	4							
	5							
	In by	ndicate if Off: y circling the	ice of Soli	id Waste su te response	rvey has bed	en submitted	in lieu	of response
	Ye	es	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	1
		o						_
	¹ A liste Califor	ed metal is eig rnia List (as c ry Act)	her an EP	toxic meta	l or a metal	l that is in	cluded o	n the
[_]	Mark (X)) this box if y	ou attach	a continua	tion sheet.			

block flow diag		
Boiler	Air Pollution Control Device ¹	Types of Emissions Data Available
1		
2		
3		
5		
Indicate by circli	if Office of Solid Waste survey has been ng the appropriate response.	submitted in lieu of response
Yes	•••••	• • • • • • • • • • • • • • • • • • • •
No 1 Use the follow	ing codes to designate the air pollution	
No 1 Use the follow S = Scrubber (E = Electrosta		control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:
No 1 Use the follow S = Scrubber (E = Electrosta	ing codes to designate the air pollution include type of scrubber in parenthesis) tic precipitator	control device:

8.19 CBI	Stack Parameters Provide the following information for each of (by capacity) boilers that are used on-site to burn the residuals in process block or residual treatment block flow diagram(s). Photocological complete it separately for each boiler.	identified in your
[_]	Boiler number	
	Stack height	m
	Stack inner diameter (at outlet)	m
	Exhaust temperature	°C
	Vertical or horizontal stack	(V or H)
	Annual emissions for the listed substance	kg/yr
	Height of attached or adjacent building	m
	Width of attached or adjacent building	m
	Building cross-sectional area	m ²
	Emission exit velocity	
	Average emission rate of exit stream	kg/min
	Maximum emission rate of exit stream	kg/min
	Average duration of maximum emission rate of exit stream .	min
	Frequency of maximum emission rate of exit stream	times/year
	Indicate if Office of Solid Waste survey has been submitted i by circling the appropriate response.	n lieu of response
	Yes	1
	No	2
[_]	Mark (X) this box if you attach a continuation sheet.	

]	Incinerator	Incinerator Type ¹	Primary Incinerator Fuel ²	Average Fuel Replacement Ratio ³	Stream ID Code			
_	1							
	2							
-	3							
	by circling	g the appropriate	Waste survey has been response.		• • • • • • • • • • • • • • • • • • • •			
1	Use the following	ng codes to design	ate the incinerator	type:				
	<pre>1I = Liquid inje 2I = Rotary or r 3I = Rotary kilr</pre>	cocking kiln n with a liquid unit	6I = Multiple h 7I = Fluidized 8I = Infrared 9I = Fume/vapor 10I = Pyrolytic 11I = Other (spe	bed destructor				
2	Use the followin	ng codes to design	ate the primary incinerator fuel:					
	A = 0il B = Gas C = Coal		D = Wood E = Other (speci	fy)				
3	Designate the pecapacity)	ercentage of auxil	iary fuel used when	firing residual (pe	ercent of			

[]					
·			Incinerator Heat Capacity (heat input in		Feed _.
In	cinerator		kJ/hr)		Type
	1				
	2			-	
	3				
	Indicate i by circlir	f Office of Solid	Waste survey has been response.	en submitted in li	eu of response
	Yes	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • •	1
	No		• • • • • • • • • • • • • • • • • • • •		2
	A = Liquid nozz B = Atomizing p C = Solid-batch D = Solid-conti	le type (specify) ressure (specify) charge nuous charge			

[_]		Ch	ustion amber ture (°C)	Tempe	tion of erature nitor	In Cor	ence Time mbustion (seconds)
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary
	1						
	2		. —				
	3						
•			of Solid Wast ropriate resp		s been submit	ted in lieu	of response
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
	No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••		2
8.23 CBI	Complete the f are used on-si treatment bloc	te to burn	the residuals ram(s). $N \circ $	identified T Applicat	in your proc	ess block or Types	residual
CBI	are used on-si	te to burn	the residuals ram(s). No Control	identified	in your proc	ess block or	residual of s Data
CBI	are used on-si treatment bloc Incinerator	te to burn	the residuals ram(s). No Control	identified The Application Device	in your proc	ess block or Types Emission	residual of s Data
CBI	are used on-si treatment bloc Incinerator	te to burn	the residuals ram(s). No Control	identified The Application Device	in your proc	ess block or Types Emission	residual of s Data
CBI	Incinerator 1 2 Indicate by circl	if Office o	Air Pocantrol Control of Solid Wasteropriate respectively.	identified Application Device VYA e survey has onse.	in your proc	Ess block or Types Emission Avail	residual s of us Data able of response
CBI	Incinerator 1 2 Indicate by circl	if Office of the approximate to burn the diagram of the approximate the approx	Air Pocontrol Of Solid Wasteropriate response	identified The Application Device 1 YA e survey has onse.	in your proc	Types Emission Avail	residual s of us Data able of response
CBI	Incinerator 1 2 3 Indicate by circl Yes	if Office of the approximate to burn the diagram of the approximate the approx	Air Pont Control of Solid Wasteropriate response.	identified The Application Device 1 WYA e survey has onse.	in your proc	Types Emission Avail	of response
CBI	Incinerator 1 2 3 Indicate by circl Yes	if Office of the approximate to burn the flow diagram of the approximate the approximate the flow diagram of the approximate the approximate the flow diagram of the approximate the a	Air Por Control of Solid Wasteropriate response.	identified The Application Device 1 WYA e survey has onse.	in your proc	Types Emission Avail	of response

8.24 CBI	Stack Parameters Provide the following information on stack paramete three largest (by capacity) incinerators that are used on-site to burn identified in your process block or residual treatment block flow diagraphotocopy this question and complete it separately for each incinerator	the residuals am(s).
[_]	Incinerator number	
X	Stack height	m
	Stack inner diameter (at outlet)	m
	Exhaust temperature	•C
	Vertical or horizontal stack	(V or H)
	Annual emissions for the listed substance	kg/yr
	Height of attached or adjacent building	m
	Width of attached or adjacent building	m
	Building cross-sectional area	m ²
	Emission exit velocity	
	Average emission rate of exit stream	kg/min
	Maximum emission rate of exit stream	kg/min
	Average duration of maximum emission rate of exit stream .	min
	Frequency of maximum emission rate of exit stream	times/year
	Indicate if Office of Solid Waste survey has been submitted in lie by circling the appropriate response.	u of response
	Yes	1
	No	2
	Mark (X) this box if you attach a continuation sheet.	

8.25 × CBI	Provide the following information on the capacity) incinerators that are used on-sprocess block or residual treatment block and complete it separately for each incin	site to burn the residuals tflow diagram(s). Photoco	identified in your
[_]	Incinerator number	·····	
	Stream ID code(s)		
		Residual, as Fired (or residual mixture if residuals are blended)	
	Btu content (J/kg)		
	Average		
	Minimum	At application and the second	
	Feed rate (kg/hr)		-
	Feed rate (J/hr)(kg/hr x J/kg)		
	Total halogen content (% by weight)		
	Average		***************************************
	Maximum		
	Total ash content (% by weight)		
	Average		
	Maximum		
	Total water content (% by weight)		
	Average		
	Maximum		
	Indicate if Office of Solid Waste s by circling the appropriate respons	urvey has been submitted i e.	n lieu of response
	Yes		1
	No	• • • • • • • • • • • • • • • • • • • •	
[_]	Mark (X) this box if you attach a continua	ation sheet.	

I	capacity) inciner process block or	residual treatment blo	ock from dragram(S).	
_ _]				
-		Stream ID	Listed	Total Metal Content
	Incinerator	Code	Metal Metal	(% by weight) Avg. Max.
	1		-	
			-	
	2			
	2			
	3			
	Indicate if	Office of Solid Waste	survey has been sub	mitted in lieu of respon
	Indicate if by circling	the appropriate respo	onse.	•••••
	Indicate if by circling Yes	the appropriate respo	onse.	••••••
	Indicate if by circling Yes No ¹ A listed metal is	the appropriate response	etal or a metal that	is included on the
	Indicate if by circling Yes No A listed metal is California List (the appropriate response	etal or a metal that	is included on the
	Indicate if by circling Yes No A listed metal is California List (the appropriate response	etal or a metal that	is included on the
	Indicate if by circling Yes No A listed metal is California List (the appropriate response	etal or a metal that	is included on the
	Indicate if by circling Yes No A listed metal is California List (the appropriate response	etal or a metal that	is included on the
	Indicate if by circling Yes No A listed metal is California List (the appropriate response	etal or a metal that	

8.27 > CBI	On-Site Storage, Treatment or Disposal in a Land Treatment Site Complete the following table for each on-site land treatment site that is used to store, treat, or dispose of the residuals identified in your process block or residual treatment block flow diagram(s).					
[_]	Total area actively used for land trea	atment m				
)				
		te survey has been submitted in lieu of response				
	Yes					
		2				
		the management practices for surface water				
	<pre>A = Collection prior to treatment B = Reapplication to the site</pre>	C = Canalization prior to treatment D = Other (specify)				

Stream ID	Year Land	Methods Used to		Application
Code	Treatment Initiated	Apply Residuals	- .	Rate ²
			-	
			-	
			-	
Indicate if Of by circling th	fice of Solid Waste survey e appropriate response.	y has been submitted	i in lieu	of response
Yes	•••••	• • • • • • • • • • • • • • • • • • • •		1
No	• • • • • • • • • • • • • • • • • • • •			2
Use the following column treatment site A = Surface spreading the surface spreading the surface spreading the subsurface injection in the subsurface injection in the subsurface in the subsurf	ng or spray irrigation with ng or spray irrigation with come ction to a depth of	od(s) used to apply thout plow or disc in th plow or disc inco	residual	s to the
Use the following column treatment site A = Surface spreading the surface spreading depth of C = Subsurface inject D = Other (specify) Use the following column treatment of the subsurface inject D = Other (specify) A = Daily B = Weekly	odes to describe the metho : ng or spray irrigation wit ng or spray irrigation wit cm	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading the B = Surface spreading the body that the subsurface injection of the column treatment of the subsurface injection of the subsurface	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading the surface spreading depth of the column treatment of the colu	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading depth of C = Subsurface injection D = Other (specify) Use the following column treatment of the column treatme	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading the surface spreading depth of the column treatment of the colu	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading the surface spreading depth of the column treatment of the colu	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the
Use the following column treatment site A = Surface spreading the surface spreading depth of the column treatment of the colu	odes to describe the method: ng or spray irrigation with ng or spray irrigation with cm ction to a depth of	od(s) used to apply thout plow or disc income	residual	s to the

rec. 4187

CasChem

Material Safety Data Sheet

Emergency Phone 201-858-7964 CHEMTREC 800-424-9300

40 Avenue A Bayonne, NJ 07002 (201) 858-7900 Fex # (201) 437-2728

CasChem, Inc.

Section I: Identification Trade Name: Vorite 128 Product Code: 72027

Product Class: Prepolymer

Chemical Abstract Number: 66071-12-3

AMIS/NFFA Hazard Identification System:

Health: 2*

Reactivity: 1

Protective Code: G Flammability: 1

Threshold Limit Value (TLV):

See section II.

Printed Date: 12/02/86

Revision Date: 11/18/86

Section II: Hazardous Ingredients

Vapor Chemical TLV (DSHA/ACGIH) Fressure Abstracts Percent <u>Mg/M</u> <u>mm Hg @68F</u> Ø.14

Number By Wght. FPM 0.02 Ingredient Name _____ * Toluene Diisocyanate (TDI)

0.005 0.04 26471-62-5_

Section III: Physical Data

Boiling Range: N/A

Vapor Density: Heavier than air

Evaporation Rate: Slower than ether

% Volatile by Volume: Nil

Density (1b/gal): 9.0

Appearance:

Section IV: Fire and Explosion Hazard Data .T. Category: PAINT AND RELATED MATERIAL

Mash Point: 375 F

inguishing Media: foam, carbon dioxide, dry chemical

Unusual fire and explosion hazards: keep the container tightly sealed and away from heat, sparks and open flame.

Special Fire Fighting Procedures: standard fireman's body protection should be worn. Self-contained breathing apparatus is recommended to protect from products of combustion.

Section V: Reactivity Data

Stability: stable

Conditions to avoid: avoid contact with oxidizing agents, water,

alcohols, and amines.

Hazardous Decomposition Products: products of incomplete combustion can include CO, CO2, oxides of nitrogen and isocyanate vapors. Hazardous Polymerization: may occur

Section VI: Health Hazard Data

Effects of over exposure:

Acute: Skin contact may cause severe irritation, sensitization, and allergic reations. Inhalation can cause mucous membrane irritation, chest tightening, coughing, headache, and shortness of breath. Eye contact can cause severe irritation. Chronic: Some individuals may develop sensitivity leading to the asthma-like symptoms on subsequent exposures below the TLV. Excessive exposure can produce serious and possibly irreversible pulmonary injury.

* Note: Toluene Diisocyanate (TDI) has been listed in the NTP Fourth Annual Report on Carcinogens. TDI has been designated as a substance that may "reasonably be anticipated to be carcinogenic". Furthermore, the International Agency for Research on Cancer (IARC) has used this NTP study to conclude that "there is inadequate evidence for the carcinogenicity of TDI to humans" but "sufficient evidence for its carcinogenicity to experimental animals".

Emergency and First Aid Procedures:

Eyes - flush thoroughly with water, get medical attention.

Skin - wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If redness and irritation continue, call a physician.

Ingestion - get immediate medical attention.

Inhalation - remove to fresh air. Give oxygen if needed. Consult a physician.

Section VII: Spill or Leak Procedures

ps to be taken in case material is released or spilled: personnel who will clean the spill are to be provided with proper respiratory, skin and eye protection. Spills should be covered with vermiculite, sawdust, or other absorbant. Absorbed material should be placed in open containers and treated with water for 24 hours before disposal. Spill area can be washed with detergent and water.

Waste Disposal Method: dispose in accordance with State, Local and Federal regulations.

Pg. 3

Section VIII: Special Frotection Information

Respiratory Protection: a NIOSH/MSHA approved organic vapor respirator or self-contained breathing apparatus should be provided during excess or unknown exposures.

Villation: work area is to be provided with proper exhaust ventila-

Pretective Gloves: chemical resistant gloves should be worn.

Eye Protection; safety goggles should be worn.

Other Protective Equipment: safety shower and eye wash station should be provided.

Section IX: Special Frecautions

Figurations to be taken in handling and storing. Store in closed containers. Protect from contamination with foreign materials and moisture. Blanket partially used contents with nitrogen. Other Precautions: do not transfer into unmarked containers.

	Total	Specify Storage, Disposal or Treatment	Average		IC LINER		LINER	COLLE	CHATE CCTION STEM	
Impound- ment	Capacity (liters)	Type if Applicable	Residency Time (days) ²	No. of <u>Liners</u>	Thick- ness (cm) ³	No. of <u>Liners</u>	Thickness (cm)	Installed (Y/N)	Leachate Collected (Y/N)	Strea ID Co
1								·		
2										
3										
4									-	
5										
by Yes	circling th	ffice of Solidne appropriate	response.	•••••	• • • • • • • •	•••••	•••••	1		
No	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	2		
¹ Indicate 8.13) to	"S" for st	torage, "D" fo treatment typ	r disposal.		the codes	provide	d in Exhibit	8-3 (which	follows que	estion
parentne	the residence sis using the lects on the	ency time for the following ne bottom:	the surface codes the f	impound requency	ment's fl with whi	ow throug ch the in	gh stream. mpoundment i	In addition is dredged t	, indicate : o clear the	in residu
A = Dail B = Week			C = Mo D = Ot		cify)					
		ness of each l								

Landfill per year Installed Thickness No. of Thickness No. of Thickness		Quantity	DRAINAG	E LAYER	CLAY	LINER	SY	NTHETIC LIN	IER	Stream
3 4 5 Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes		per year	Installed	Thickness	No. of	Thickness	No. of		Thickness	ID Code
3 4 5 Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes	1									
Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes	2			***************************************				•		
Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes	3									
Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes	4		•							
by circling the appropriate response. Yes	5								-	
						een submitted	d in lieu	of response	:	
No 2	17 -	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		L	
	res						• • • • • • • • • •	2	2	
¹ Indicate the thickness of each liner			• • • • • • • • • • • • • • • • • • • •							

-

.

8.31	State the total	area actively used on-	-site for your landfill.	
CBI	/			
[_]	Total area acti	vely used		m ²
	Indicate by circli	if Office of Solid Wast	te survey has been submit	ted in lieu of response
	Yes			1
	No			2
8.32 CBI	contain residua diagram(s).		Five largest landfill cell process block or residual	
[_]	X	VORVING	GAR BROZOV	LEACHATE COLLECTION
		WORKING COVER	CAP DESIGN CLAY LAYER	SYSTEM Leachate
	Landfill Cell	Average Thickness Use (cm)	Installed Thickness (Y/N) (cm)	Installed Collected (Y/N) (Y/N)
	1	***************************************		
	2			
	3			
	4			
	5			
		if Office of Solid Wast	e survey has been submitteness.	ted in lieu of response
	Yes	• • • • • • • • • • • • • • • • • • • •		
	No		•••••	2
	A = Daily B = Weekly C = Monthly	ing codes to designate		
[_]	Mark (X) this bo	ox if you attach a cont	inuation sheet.	

8.33 <u>CBI</u>	largest (by ve	olume) injection wells the	Complete the following table at are used on-site to dispos sidual treatment block flow o	se of the residuals
[_]			Quantitu	Stroom
×		Well ₁	Quantity Disposed	Stream ID
	Well	Type ⁺	(liters) ²	Code
	1		and the second s	
	2			
	3			
	4			
	5		-	-
		e if Office of Solid Waste ling the appropriate respo	e survey has been submitted :	in lieu of response
	¹ Use the folion A = Wells the dissolved B = Wells the total distortal C = Wells the D = Other (sp	owing codes to designate wat dispose below deepest god solids at dispose into a formation solved solids at dispose above all grounds	groundwater with <10,000 mg/lon containing groundwater with dwater	l of total
	Mark (Y) shi-	box if you attach a conti		

SECTION 9	WORKER	EXPOSURE	A	

General Instructions:

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[_] Mark (X) this box if you attach a continuation sheet.

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PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

		intained for:		Number of
Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained
Date of hire		×	1961	エルカラティル・エー
Age at hire			1961	INDER MITE
Work history of individual before employment at your				
facility	NA		NA/1961	エルカモドハハーモ
Sex		X	1961	INDEFINITE
Race			1961	INDEFINITE
Job titles	NA	NA	NA	NA
Start date for each job title	<u> NA</u>	NA	NA	NA_
End date for each job title	NA		NA	NA
Work area industrial hygiene monitoring data	NA_	NA_		A <i>u</i>
Personal employee monitoring data	NA	NA	NA	NA
Employee medical history	<u> </u>		1961	INDEFINITE
Employee smoking history	NA_	NA	N A	A A
Accident history			1961	INDEFINITE
Retirement date		X	1961	INDEFINITE
Termination date	<u> </u>		1961	INDEF, WITE
Vital status of retirees	NA	NA	NA	<u> </u>
Cause of death data	NA	NA	NA	<u>NA</u>

^[] Mark (X) this box if you attach a continuation sheet.

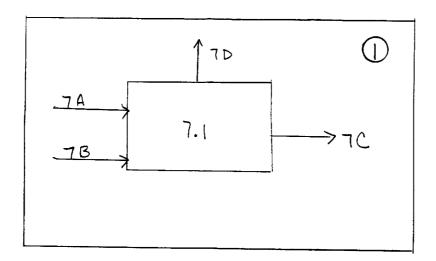
9.02 <u>CBI</u>	In accordance with the in which you engage.	e instructions, complete	the following ta	able for ea	ach activity
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the	Enclosed	NA	NA	_ NA
	listed substance	Controlled Release	NA	NA	AC
		0pen	NA	NA_	<u>NA</u>
	On-site use as	Enclosed	NA	13A	PA
	reactant	Controlled Release	64.7	5	240
		0pen	NA NA	NA	NA
	On-site use as	Enclosed	NA	NA_	44
	nonreactant	Controlled Release	NA	NA_	NA
		0pen	NA	NA	AK
	On-site preparation	Enclosed	NA	NA_	
	of products	Controlled Release	NA	NA_	NA
		0pen	NA	N4	NA

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

9.03	Provide a descripti encompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
CBI	210tta SabStance.	
[_]		
	Labor Category	Descriptive Job Title
	A	BENCH HAND
	В	MACHINE SETTER
	С	MAINTENANCE PERSON(s)
	D	
	E	
	F	
	G	
	Н	
	I	
	J	
	•	

9.04	In accordance with the instructions, indicate associated work areas.	provide	your	process	block	flow	diagram(s)	and
<u>CBI</u>								

[_] Process type Poit(NG



[] Mark (X) this box if you attach a continuation sheet.

	may potentially come is additional areas not s	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
CBI		
[_]	Process type	POIT ING
	Work Area ID	Description of Work Areas and Worker Activities
	1	POTTING AREA; LOADED ARTICLES ON BELT; SET UP MIXING CHAMBER; ADJUSTED CHEMICAL FEE
	B	SET UP MIXING CHAMBER; ADJUSTED CHEMICAL FEE
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

Process			y for each proc				
Work ar	ea	• • • • • • • • • • •			• • • • •	1	
Labo Catego	_	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number o Days per Year _Exposed
<u></u> A		2	INHALATION DIRECT	<u>- Skin C</u> owr	ACT OL	<u> </u>	120
B	<u> </u>	2	INHALATION DIRECT			B	120
			INHALATION Direct S	KIN CONTAC	<u>- 6L</u>	<u> </u>	_20
							. <u></u>
	_						
							
							
the po GC = GU = SO = 2 Use th A = 15 B = Gr ex	int of Gas (c temper Gas (u temper includ Solid e foll minut eater ceedin	exposure: ondensible a ature and pr ncondensible ature and pr es fumes, va	essure) at ambient essure; pors, etc.) to designate ave	SY = AL = OL = IL = erage le E = 0	Sludge or si Aqueous liqu Organic liqu Immiscible i (specify pha 90% water, i ength of expo	lurry uid uid liquid uses, e.g., l0% toluene) osure per day: 2 hours, but nours 4 hours, but	not

area.	scion and complete it separately is	nute peak exposure levels. or each process type and work
Process type	·· Pott, NG	***
Work area	·····	\
Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
A	NON - DETECTABLE	NON - DETELTABLE
<u> </u>	NOW - DETECTABLE	NON - DETECTABLE
<u>C</u>	NON - DETECTABLE	NON - DETECTABLE
		
		•
	Work area Labor Category A B C	A NOW - DETECTABLE B NOW - DETECTABLE

}	If you monitor worke	r exposur	te to the li	sted substa	nce, compl	lete the fo	llowing table
)	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who	Analyzed In-House (Y/N)	Number of Years Record Maintained
	Personal breathing zone		ONCE/YR	2-3	A	4	INDEF. 13. TO
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples			-			
	Urine samples						
	Respiratory samples						
	Allergy tests						•
	Other (specify)						
	Other (specify)						
	Other (specify)						
	¹ Use the following co	odes to d	esignate who	takes the	monitorin	g samples:	
	A = Plant industria B = Insurance carrie		st				

	Sample Type	<u>Sa</u>	Sampling and Analytical Methodology				
	Persona i Breathing Zo	MARCALI	METHOD (PR.MAR	-D AND DRI	4EGER TUBES (SECONDAG		
9.10	If you conduct person specify the following				substance,		
CBI	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number		
` <i>'</i>	D, 14	0.005A	MSA	4	KNKNOWN		
					-		
	Use the following codes to designate personal air monitoring equipment types: A = Passive dosimeter B = Detector tube C = Charcoal filtration tube with pump D = Other (specify) Babaler (Impineer Tabes)						
	Use the following codes to designate ambient air monitoring equipment types:						
	E = Stationary monitors located within work area F = Stationary monitors located within facility G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify) MSA I = Other (specify)						
	² Use the following codes to designate detection limit units:						
	A = ppm B = Fibers/cubic centimeter (f/cc) C = Micrograms/cubic meter (\(\mu/m^3\))						

<u>CBI</u>				_
[_]	Test Desc	ription	(weekly,	Frequency monthly, yearly, etc.)
	ENTRY DULY -	To Exchade	0	ENTRY ONLY
	PERSONNEL 2	ITH CHRONIC		
	RESPIRATOR-1	PROBLEMS		····
	- Charles and the control of the con			
			-	

Describe the engineering con to the listed substance. Ph process type and work area.				
Process type	Poting	-		
Work area		• • • • • • • • • • • • • • • • • • • •		
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgrade
Ventilation:				
Local exhaust	<u> </u>	1961		1976
General dilution				
Other (specify)				
Vessel emission controls	NA			
Mechanical loading or packaging equipment	NA			
Other (specify)				

	Describe all equipment or process modifications you have mapping to the reporting year that have resulted in a reduction the listed substance. For each equipment or process modification the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area.	on of worker exposure t cation described, state copy this question and		
I				
_]	Process type Poting			
	Work area			
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)		
	NonE	NA		
				
		And produce the second		

9.14	in each work are substance. Phot	sonal protective and safety eques in order to reduce or elimina cocopy this question and complet	ite their exposure t	o the listed
<u>CBI</u>	and work area.			
[_]	Process type	Роп. NG		
	Work area	•••••		1
			Wear or Use	
		Equipment Types	(Y/N)	
		Respirators	N	
		Safety goggles/glasses		
		Face shields	<u> </u>	
		Coveralls	<u> </u>	
		Bib aprons	_ 12	
		Chemical-resistant gloves		· .
		Other (specify)	•	

r				^ -			
<u>I</u> -, .	NOT APPLICABLE						
_]	Process type						
-	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)		Frequency of Fit Tests (per year)	
· -							
	<pre>C = Monthly D = Once a year E = Other (specify) 2Use the following codes to designate the type of fit test: QL = Qualitative QT = Quantitative</pre>						
2	Use the foll QL = Qualita	owing codes to desig	nate the type	of fit tes	t:		
2	Use the foll QL = Qualita	owing codes to desig	nate the type	of fit tes	t:		
2	Use the foll QL = Qualita	owing codes to desig	nate the type	of fit tes	t:		

9.16 ×	the listed substance, spe	ogram For each type of respirator used ecify the frequency of the maintenance act maintenance activity. Photocopy this ques espirator type.	ivity, and the
	Respirator type		
	Respirator Maintenance Activity	Frequency ¹	Person Performing Activity ²
	Cleaning		
	Inspection		
	Replacement		
	Cartridge/Canister		
	Respirator unit		
	² Use the following codes to A = Plant industrial hygi B = Supervisor C = Foreman D = Other (specify)		activity:
	Mark (Y) this how if you -	ttach a continuation sheet.	

R	•					
	Respirator type					
_	Type of Training ¹	Number of Workers Trained	Location of	Length of Training (hrs)	Person Performing Training	Freque
- b	•					
R	espirator ty	pe	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
Re	Type of e-training ¹	Number of Workers Re-trained	Location of Re-Training ²	Length of Re-Training (hrs)	Person Performing Re-Training ³	Freque
I (Use the followards and the second of the sec	olant instru classroom i ob	ction	the location of tra	ining or re-trai	ning:
3 I	Jse the folloge- re-training:	owing codes	to designate	the person who perf	orms the trainin	g or
	<pre>A = Plant industrial hygienist B = Supervisor C = Foreman D = Other (specify)</pre>					
(⁴ Use the following codes to designate the frequency of respirator training or re-training:					
([4	Jse the follo e-training:					

	Clothing and Equipment	Permeation Tests Conducto (Y/N)
	Coveralls	
	Bib apron	***************************************
	Gloves	
	Other (specify)	
٠		

9.19 CBI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.						
[_]	Process type	POTTING					
	Work area						
	Moriter	TRAINING PR	OGRAMS				
		HOUSE KEE					
	<u> </u>	ENSTRUCTION.	5				
9.20	Indicate (X) how often you leaks or spills of the lis	ted substance.	Photocopy thi				
9.20		eted substance. s type and work	Photocopy thi	s question an			
9.20	leaks or spills of the lis separately for each process	eted substance. es type and work Poけいと	Photocopy thi	s question an	nd complete it		
9.20	leaks or spills of the lis separately for each proces Process type Work area	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day		
9.20	leaks or spills of the lis separately for each process Process type Work area	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day		
9.20	leaks or spills of the lis separately for each proces Process type Work area Housekeeping Tasks Sweeping	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day As Require		
9.20	leaks or spills of the lis separately for each proces Process type Work area Housekeeping Tasks Sweeping Vacuuming	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4		
9.20	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day As Require		
9.20	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day As Require		
9.20	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Eted substance. Is type and work Portions Less Than	Photocopy this area. 1-2 Times	s question and	More Than 4 Times Per Day As REQUIRE		

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
×	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? SHOP SECTION CHIEF
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
×	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

9.24	Who is responsible for safety and health training at your facility? Circle the appropriate response.
*	Plant safety specialist 1
	Insurance carrier
	OSHA consultant 3
	Other (specify) 4
9.25	Who is responsible for the medical program at your facility? Circle the appropriate response.
Х	Plant physician
,	Consulting physician
	Plant nurse 3
	Consulting nurse 4
	Other (specify)
	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	A GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area 1
	Urban area
	Residential area
	Agricultural area
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility8
	Within 1 mile of a non-navigable waterway9
	Other (specify)10
	Mark (X) this box if you attach a continuation sheet.

10.02	Specify the exact location of y is located) in terms of latitud (UTM) coordinates.	your facility (from cent le and longitude or Univ	tral point where versal Transvers	process unit e Mercader
	Latitude		<u>38 ° </u>	6 12
	Longitude		94 . 2	3'_28'
	UTM coordinates Zo	one, North	ng, Ea	sting
10.03	If you monitor meteorological c the following information.	onditions in the vicini	ty of your faci	lity, provide
×	Average annual precipitation	••••••		inches/year
	Predominant wind direction			
10.04 ×	Indicate the depth to groundwat Depth to groundwater			meters
10.05 <u>CBI</u>	For each on-site activity lister listed substance to the environ Y, N, and NA.)	d, indicate (Y/N/NA) alment. (Refer to the in	l routine releas structions for a	ses of the a definition of
[_]	On-Site Activity	Envi Air	ronmental Releas Water	se Land
	Manufacturing	NA	NA	NA
	Importing	NA	NA	NA
	Processing		N	2
	Otherwise used	NA	NA	24
	Product or residual storage	2	7	N
	Disposal	N	N	2
	Transport	N	2	7
 [1 1	Mark (X) this box if you attach a	a continuation sheet.		

	Provide the following information for the lister of precision for each item. (Refer to the instant example.)	ed substance and spec ructions for further	ify the level explanation and
CBI			
[_]	Quantity discharged to the air	Non-detectable	_ kg/yr <u>+</u> _O
	Quantity discharged in wastewaters	NA	_ kg/yr <u>+</u> <u></u>
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr ±
	Quantity managed as other waste in off-site treatment, storage, or disposal units	ДИ	_ kg/yr <u>+</u> _
			•

[_] Mark (X) this box if you attach a continuation sheet.

Process Stream ID	Media _	Average Amount of Listed	Number of	Days o Operati
Code	Affected ¹	Substance Released ²	Batches/Year	Year
A = Air B = Land C = Groundwa D = POTW E = Navigable	ter e waterway gable waterway	esignate the media affected:		
Specify the a	average amount o	f listed substance released nate the units used to measu	to the environm re the release:	ent and u
A = kg/day B = kg/batch				

10.08 CBI	for each process stream process block or residua	chnologies used to minimize release o containing the listed substance as in treatment block flow diagram(s). The containing the listed substance is treatment block flow diagram(s).	dentified in your				
[_]	Process type Poiling						
	Stream ID Code	Control Technology	Percent Efficiency				
	70	FLONE	NA_				
			 -				
			····				
[_] }	Mark (Y) this hav if you	attach a continuation sheet.					

10.09 <u>CBI</u> [_]	substance in terms o residual treatment b source. Do not incl	ns Identify each emission point source containing the listed f a Stream ID Code as identified in your process block or lock flow diagram(s), and provide a description of each point ude raw material and product storage vents, or fugitive emission ment leaks). Photocopy this question and complete it separately e.
	Process type	POTTING
	Point Source ID Code	Description of Emission Point Source
	<u> 1D</u>	EXHAUST STACK

Mark (X) this

10.10	Emission 10.09 h	on Character Dy completin	ristics — — Ch ng the followi	aracterize the	e emissions fo	or each Point	Source ID Coo	de identified	in question
(<u></u>	Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor ⁴	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)
	10	<u>G</u>	0.0	120	120	1.0	0.004	120	120
					-				
					-				-
									
	¹ Use the G = Gas	e following s; V = Vapon	codes to desi	ignate physica ulate; A = Aer	l state at the osol; 0 = Othe	e point of re er (specify)	lease:		
	² Freque	ncy of emiss	sion at any le	evel of emission	on				
	³ Duratio	on of emiss:	ion at amy lev	el of emission	n				
	⁴ Average	e Emission H		ride estimated		i) emission fa	actor (kg of e	≖mission per k	g of

	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity _(m/sec)	Building Height(m)	Building Width(m)	Ve Ty
	70	<u>uk</u>	UK	26	<u> </u>	MK	UK	
							· .	
						,		
	4							
	·							
. - -	·							
			or adjacent					
			or adjacent t	ouilding ignate vent t				
	H = Hori		odes to desi	ignate vent i	.ype:			
	V = Vert							

0.12 BI	If the listed substance is emitted in particul distribution for each Point Source ID Code ide Photocopy this question and complete it separa	entified in question 10.09.
J	Point source ID code	7 D
	Size Range (microns)	Mass Fraction (% \pm % precision)
	< 1	NA
	≥ 1 to < 10	NA .
	≥ 10 to < 30	NA
	≥ 30 to < 50	NA
	≥ 50 to < 100	NA
	≥ 100 to < 500	NA
	≥ 500	WA
		Total = 100%

10.13 CBI	Equipment Leaks Complet types listed which are expaccording to the specified the component. Do this foresidual treatment block f not exposed to the listed process, give an overall pexposed to the listed subsfor each process type.	osed to the commerced weight percessed to the commerced t	listed suent of the ss type is. Do not this itime per	bstance a e listed dentified ot includ s a batch vear tha	nd which substance in your e equipme or inter	are in se passing process b nt types mittently	rvice through lock or that are operated
[-]	Process type	Dor. No					
	Percentage of time per year	r that the li	sted sub	stance is	exposed	to this n	rocess
	type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	•••••••	–	NA S
			of Compos of Liste	nents in d Substan	Service by	y Weight I cess Stre	am
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%
	Pump seals ¹				20 / 3/8	10 33%	ciidii > //
	Packed			UNKI	Sou D		
	Mechanical				1		
	Double mechanical ²		-		\ 		
	Compressor seals ¹						
	Flanges						
	Valves						
	Gas^3						
	Liquid						· · · · · · · · · · · · · · · · · · ·
	Pressure relief devices ⁴ (Gas or vapor only)	-					
	Sample connections			Ì			
	Gas						
	Liquid		<u></u>				
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid				/		
	¹ List the number of pump and compressors	d compressor	seals, r	ather tha	n the num	ber of pu	mps or
0.13	continued on next page						

10.13	(continued)									
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively									
	³ Conditions existing in the valve during normal operation ⁴ Report all pressure relief devices in service, including those equipped with control devices									
	⁵ Lines closed during normal operation that would be used during maintenance operations									
10.14 CBI	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	indicate which p	ressure relief						
[_]	a.	b.	c.	d.						
	Number of Pressure Relief Devices	Percent Chemical in Vessel	Control Device	Estimated Control Efficiency ²						
			JO N E							
1	Refer to the table in ques heading entitled "Number of Substance" (e.g., <5%, 5-10)	f Components in Serv	d the percent rang ice by Weight Perc	ge given under the cent of Listed						
2	The EPA assigns a control of with rupture discs under not efficiency of 98 percent for conditions	ormal operating cond:	itions. The EPA a	issigns a control						
[<u>]</u>] M	Mark (X) this box if you at	tach a continuation s	sheet.							

10.15 <u>CBI</u>	Equipment Leak Detection place, complete the procedures. Photocotype.	following table reg	carding tho	se leak det	ection and r	enair
([—])	Process type	• • • • • • • • • • • • • • • • • • • •		Port	126	
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device	Frequency of Leak Detection		Repairs Completed (days after initiated)
	Pump seals					
	Packed		NOT	APPLICA	BCE	
	Mechanical			1		
	Double mechanical					***************************************
	Compressor seals					
	Flanges					
	Valves					
	Gas					
	Liquid					
	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					
	Liquid _					
	Open-ended lines					
	Gas					
	Liquid _			A		
	¹ Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	nic vapor analyzer nitoring			-	·

Vessel Vessel Vessel ing Floating Composition Throughput Filling Filling Inner Vessel Vessel Design Vent Control Vessel Roof of Stored (liters Rate Duration Diameter Height Volume Emission Flow Diameter Efficiency					k flow diagram(s). Operat-										
¹ Use the following codes to designate vessel type: F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof NCIF = Sternal floating roof NCIF = Sternal floating roof NCIF = External floating roof NCIF = Noncontact internal floating roof NCIF = In-mounted secondary NCIF = In-mounted secondary NCIF = In-mounted resilient filled seal, primary NCIF = In-mounted shield NCIF = Norizontal NCIF = Nor	[_]	1	Roof	of Stored	(liters	Filling Rate	Filling Duration	Inner Diameter	Height	ing Vessel Volume	Vessel Emission	Flow	Diameter	Efficiency	Basis for Estimat
F = Fixed roof CIF = Contact internal floating roof NS2 = Shoe—mounted secondary NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NS1 = Mechanical shoe, primary MS2 = Shoe—mounted secondary MS2R = Rim—mounted, secondary IM1 = Liquid—mounted resilient filled seal, primary IM2 = Rim—mounted sheld IM3 = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim—mounted secondary VMW = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis 4 Other than floating roofs Sas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:				N 67	APF	CA	BLE	-							
F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof NCIF = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCIF = Noncontact internal floating roof IMI = Liquid-mounted, secondary IMI = Liquid-mounted resilient filled seal, primary IMI = Rim-mounted shield IMI = Weather shield VMI = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:															
F = Fixed roof CIF = Contact internal floating roof NS1 = Mechanical shoe, primary MS2 = Shoe—mounted secondary NCIF = Noncontact internal floating roof EFR = External floating roof F = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground MS2 = Shoe—mounted, secondary IM1 = Liquid—mounted resilient filled seal, primary IM2 = Rim—mounted shield IM3 = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim—mounted secondary VM2 = Rim—mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:												,			
F = Fixed roof CIF = Contact internal floating roof NS1 = Mechanical shoe, primary MS2 = Shoe—mounted secondary NCIF = Noncontact internal floating roof EFR = External floating roof F = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground MS2 = Shoe—mounted, secondary IM1 = Liquid—mounted resilient filled seal, primary IM2 = Rim—mounted shield IM3 = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim—mounted secondary VM2 = Rim—mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:						•					-				
F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof F = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCIF = Noncontact internal floating roof EFR = External floating roof IM1 = Liquid-mounted, secondary IM2 = Rim-mounted shield IM3 = Weather shield IM4 = Wapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:															
F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCIF = Noncontact internal floating roof LM1 = Liquid-mounted, secondary LM2 = Rim-mounted shield LM3 = Weather shield NM4 = Weather shield NM5 = Mechanical shoe, primary MS2R = Rim-mounted, secondary LM4 = Rim-mounted shield LM5 = Rim-mounted resilient filled seal, primary NM5 = Mechanical shoe, primary MS2R = Rim-mounted, secondary LM6 = Rim-mounted shield LM7 = Weather shield NM1 = Vapor mounted resilient filled seal, primary NM2 = Rim-mounted secondary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary MS2R = Rim-mounted, secondary LM6 = Rim-mounted shield NM1 = Vapor mounted resilient filled seal, primary NM2 = Rim-mounted secondary NM2 = Rim-mounted resilient filled seal, primary NM2 = Rim-mounted resilient filled seal, primary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM6 = Rim-mounted secondary NM2 = Rim-mounted secondary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM6 = Rim-mounted resilient filled seal, primary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM7 = Rim-mounted secondary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM7 = Rim-mounted secondary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM7 = Rim-mounted secondary NM2 = Rim-mounted secondary NM3 = Mechanical shoe, primary LM7 = Rim-mounted secondary NM2 = Rim-mounted shield LM8 = Rim-mounted shield LM9 = Rim-mounte										-					
F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof F = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCIF = Noncontact internal floating roof EFR = External floating roof IM1 = Liquid-mounted, secondary IM2 = Rim-mounted shield IM3 = Weather shield IM4 = Wapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:										-		·			
F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof F = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCIF = Noncontact internal floating roof EFR = External floating roof IM1 = Liquid-mounted, secondary IM2 = Rim-mounted shield IM3 = Weather shield IM4 = Wapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:															
F = Fixed roof CIF = Contact internal floating roof NS1 = Mechanical shoe, primary MS2 = Shoe—mounted secondary NCIF = Noncontact internal floating roof NS2R = Rim—mounted, secondary EFR = External floating roof IM1 = Liquid—mounted resilient filled seal, primary P = Pressure vessel (indicate pressure rating) IM2 = Rim—mounted shield IMW = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim—mounted secondary VM2 = Rim—mounted secondary VM3 = Weather shield 3 Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis 4 Other than floating roofs 5 Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) 6 Use the following codes to designate basis for estimate of control efficiency:		1				·		·	- -			<u>-</u>		- -	
CTF = Contact internal floating roof NCTF = Noncontact internal floating roof NCTF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NCTF = Noncontact internal floating roof IMS = Rim-mounted, secondary IMS = Rim-mounted resilient filled seal, primary IMS = Rim-mounted shield IMW = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VMV = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:	1	"Use t		-	designate ve	essel typ	e:						te floatin	g roof seal	s:
EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM4 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) UM2 = Rim-mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM4 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted shield VM4 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted shield VM4 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield		-			nating roof										
P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground VM1 = Vapor mounted shield VM2 = Rim-mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) UM2 = Rim-mounted shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted shield VM3 = Vapor mounted resilient filled seal, primary VMV = Veather shield Other shield Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)		CIF	= Contact												
U = Underground VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VMW = Weather shield Tradicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Umage: VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Vapor mounted resilient filled seal, primary Other shield Other than floating roofs Underground Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)		CIF NCIF	= Contact = Nonconta	act internal	floating roo	of							1104 0001		
VM2 = Rim-mounted secondary VMW = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency:		CIF NCIF EFR P	ContactNoncontaExternalPressure	act internal I floating ro e vessel (inc	floating roo		g)	LM1 LM2	= Liq = Rim	uid-mou ⊢mounte	nted resil d shield		lled seal,	primary	
³ Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis ⁴ Other than floating roofs ⁵ Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) ⁶ Use the following codes to designate basis for estimate of control efficiency:		CIF NCIF EFR P H	= Contact = Nonconta = External = Pressure = Horizon	act internal l floating ro e vessel (inc tal	floating roo		g)	LM1 LM2 LMW	= Liq = Rim = Wea	uid-moun i-mounte ither sh	nted resil d shield ield	ient fi			
⁴ Other than floating roofs ⁵ Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) ⁶ Use the following codes to designate basis for estimate of control efficiency:		CIF NCIF EFR P H	= Contact = Nonconta = External = Pressure = Horizon	act internal l floating ro e vessel (inc tal	floating roo		g)	LM1 LM2 LMW VM1 VM2	= Liq = Rim = Wea = Vap = Rim	uid-mounte hounte ther sh or moun hounte	nted resild shield ield ted resilid secondar	ient fil			
⁵ Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) ⁶ Use the following codes to designate basis for estimate of control efficiency:		CIF NCIF EFR P H U	= Contact = Nonconta = External = Pressure = Horizon = Undergro	act internal l floating ro e vessel (inc tal ound	floating roo oof dicate pressu	ure ratin		LM1 LM2 LMW VM1 VM2 VMW	= Liq = Rim = Wea = Vap = Rim = Wea	uid-mounte ther sh or moun t-mounte ther sh	nted resild shield ield ted resilid secondar ield	ient fi ent fil y	led seal,	primary	
⁶ Use the following codes to designate basis for estimate of control efficiency:		CIF NCIF EFR P H U	= Contact = Nonconta = External = Pressure = Horizon = Undergro	act internal l floating ro e vessel (inc tal ound t percent of	floating roo oof dicate pressu	ure ratin		LM1 LM2 LMW VM1 VM2 VMW	= Liq = Rim = Wea = Vap = Rim = Wea	uid-mounte ther sh or moun t-mounte ther sh	nted resild shield ield ted resilid secondar ield	ient fi ent fil y	led seal,	primary	
		CIF NCIF EFR P H U	= Contact = Nonconta = External = Pressure = Horizon = Undergro ate weight	act internal I floating ro e vessel (incomical bund t percent of	floating room of dicate pressu	ure ratin	. Include	LM1 LM2 LMW VM1 VM2 VMW	= Liq = Rim = Wea = Vap = Rim = Wea	uid-mounte ther sh for moun t-mounte ther sh tile org	nted resild shield ield ted resilid secondar ield anic conte	ient fil ent fill y nt in pa	led seal,	primary	
S = Sampling		CIF NCIF EFR P H U	= Contact = Nonconta = External = Pressure = Horizon = Undergro ate weight than flow	act internal I floating ro e vessel (included the count of the count o	floating room of licate pressu the listed s ission contro	ure rating	. Include	LM1 LM2 LMW VM1 VM2 VMW the total	= Liq = Rim = Wea = Vap = Rim = Wea 1 volat	uid—mounte ther sh for mount for mount for mounte ther sh file organise	nted resild shield ield ted resilid secondar ield anic conte	ient fil ent fill y nt in pa	led seal,	primary	

10.17	National Pollutant Discharge Elimination System (NPDES) Discharges	: Complete the							
CBI	following information for each body of water NPDES discharges are discharged into. If discharges are to more than one body of water, photocopy this question and complete it separately for each discharge.								
[_]	Discharge source (stream ID code)	• • • •							
	Is discharge to a moving or standing body of water? Circle the apresponse.	propriate							
	Moving body of water	•••••							
	Standing body of water	• • • • • • • • • • • • • • • • • • • •							
	Estimated average base flow (moving)	1/day							
	Estimated average volume (standing)	1							
	Average volume of discharge from facility	1/day							
		days/year							
	Maximum volume of discharge from facility	1/day							
		days/year							
	Average concentration of listed substance in discharge	mg/l or ppm							
	Maximum concentration of listed substance in discharge	mg/l or ppm							
10.18 CBI	Publicly Owned Treatment Works (POTW) Complete the following indischarges containing the listed substance which are discharged to facility.	formation for a POTW from your							
[_]	Discharge source (stream ID code)	••••							
	Average volume of discharge from facility	1/day							
		days/year							
	Maximum volume of discharge from facility	1/4							
		1/day							
		1/day days/year							
	Average concentration of listed substance in discharge	days/year							

<u>CBI</u>	source. Examples of nonpoint sources include stormwater runoff, we and runoff from product or raw material storage areas or other sour the listed substance and may be discharged to surface water. Excludischarges. If discharges are to more than one body of water, pho question and complete it separately for each discharge.	rces that contain ude NPDES or POTW
[_]	Discharge source (stream ID code)	
	Is discharge to a moving or standing body of water? Circle the appresponse.	propriate
	Moving body of water	1
	Standing body of water	2
	Estimated average base flow (moving)	1/day
	Estimated average volume (standing)	1
	Average volume of discharge from facility	1/day
	·	days/year
	Maximum volume of discharge from facility	1/day
		days/year
	Average concentration of listed substance in discharge	mg/l or ppm
	Maximum concentration of listed substance in discharge	mg/l or ppm

10.20 CBI	Releases to Soils Complete the following information for up to three random soil core samples that were taken and analyzed for the listed substance during the reporting year. Report the concentrations of the listed substance determined by soil core monitoring studies/tests. Specify the distance from the facility that soil cores were taken, and indicate the soil type and sample depth of the soil cores. (Refer to the glossary for definitions of soil textures given in foo note 2.)									
(<u> </u>	<u>Sample</u>	Concentration (of Listed Subst (± % precisi	ance Di	stance from Plant (m)	Soil Texture	Sample Depth (cm)				
	1					-				
	2									
	3									
	Use the forboundary: 0S = 0n-si	llowing code to d	designate if the	e sample was	taken within th	ne facility's				
	² Use the following codes to designate soil texture:									
	A = Sand B = Loamy S C = Sandy D D = Loam E = Silty F F = Silt	sand Loam	G = Sandy clay H = Clay loam I = Silty clay J = Sandy clay K = Silty clay L = Clay	loam						
10.21 <u>CBI</u> [_]	samples of g	Groundwater (groundwater from the listed substance.	monitoring well	ls during the	reporting year	that were				
_		Distance	Well		rage tration	Maximum Concentration				
	Sample	from Plant (m) ¹	Depth (m)		/1)	<pre>(mg/l) ± % precision)</pre>				
	1									
	2									
	3									
	¹ Use the fol boundary:	lowing code to d	esignate if the	sample was	taken within th	e facility's				
	OS = On-sit	•								

CBI	from drinking water wells monitored during the reporting year. The averance maximum concentration refers to the listed substance.							
[_]	<u>Well</u>	Well Depth (m)	Distance from Plant (m) ¹	Average Concentration (mg/l) (± % precision)	Maximum Concentration (mg/l) (<u>t</u> % precision)			
	_1				-			
	_2							
	3							

0S = 0n-site

 $^{^{\}rm 1}\textsc{Use}$ the following code to designate if the sample was taken within the facility's boundary:

	_			
PART	E	NON-	-ROUTINE	RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	NA	NA	NA	NA
2	NA	<u> </u>	NA	_ NA
3	NA	NA	NД	<u>NA</u>
4	AN	NA	NA	NA
5	NA	A <i>U</i>	NA	NA
6	<u></u>	NA	<u> </u>	NA

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed _(km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1					***************************************
2					
3			-24		
4					
5					
6					

10.25	Complete the following information for each media into which the listed substance was released. Any volatile substance that was released to land, but that was expected to volatilize, should be listed as a release to air.										
	Release No	Release No									
	Media	Quantity (kg)	Method of Release	Migration Beyond Boundaries (Y/N)	Quantity Migrated (kg)						
	Land										
	Air										
	Groundwater										
	Surface water										
10.26	Specify the phys point of release		oncentration of the listed	d substance at the	e time and						
	Release No	• • • • • • • • • • • • • • • • • • • •	•••••	····· _							
	Point of release		• • • • • • • • • • • • • • • • • • • •								
	Physical state .		• • • • • • • • • • • • • • • • • • • •								
	Concentration (%)									
			,								
	fork (V) this have	if you attach -	continuation sheet.								

10.27	Circle all appropriate responses relating to the cause and the effects of the	
	release.	
	Release No	
	Cause of Release	
	Equipment failure	1
	Operator error	2
	Bypass condition	3
	Upset condition	4
	Fire	5
	Unknown	6
	Other (specify)	7
	Results of Release	
	Spill	1
	Vapor release	2
	Explosion	3
	Fire	4
	Other (specify)	5

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

10.00								
10.28	• • • • • • • • • • • • • • • • • • • •							
		lease No						
	a.	<u>Federal</u>						
		Agency [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Office [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Address [_]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]						
		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		[<u> </u>						
		Telephone Number [_]_]_]-[_]]_]-[_]]_]-[_]]						
		Date Notified [_]_] [_]_] [_]_] [_]						
		Time Notified []]] am/p						
	b.	State						
		Agency [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Office [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
		[]						
		Telephone Number [_]]_]-[_]]_]-[_]]_]-[_]]_]						
		Date Notified [_]_] [_]_] [_]_] [_]_						
		Time Notified						
10.28	con	tinued below						
[<u></u>] M	lark	(X) this box if you attach a continuation sheet.						

10.28	(co	ntinued)						
	c.	<u>Local</u>					•	
		Agency	[_]]111		[I_I_I_]	111_	1_1_1_1_1_
		Office	[_	1_1_1_1	11111	 	111_]_]_]_]
		Contact Pe	erson [_	[] <u>_</u>]_]]	<u></u>	1_1_1_1	111_	1_1_1_1_1
		Address	[_]_]_	1_1_1_1]]_]_] Street	_1_1_1_]_]_]_]
			[_]]_	[1_1_1_1	11111]]]]	111] _]_]_]_]
								[]] State
		Telephone	Number	•••••	[111-	[_]_]_]-	[_]_]_]
		Date Notif	ied	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	[_]_] [_ Mo.] []] Day Year
		Time Notif	ied	•••••	••••••	•••••		•
10.29	with who	hin that pr	oximity w he popula	as notified tion, the	d below, indicate d of, or evacuate number of people gan.	d because 🧸	of the rele	ase. Specify
	Rele	ease No	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		•
		kimity to Release	Notified of Release (Y/N)	Notifying	Notifying Person's Telephone Number	Area Evacuated (Y/N)		Date and Time of Day Evacuation Began
	1/4	mile						
	1/2	mile						
	1 mi	ile		-				
	Othe	er Specify)						

Specify the number of personal injuries or casualties resulting from the release.							
Release No							
Number of injuries to facility employees							
Number of injuries to general population							
Number of deaths to facility employees							
Number of deaths to general population							
Indicate who conducted cleanup activities, and the dates over which the cleanup was performed.							
Release No							
Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]							
Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]							
[_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1							
[_]_] [_]_]_]_]_][_]_]_]_] State							
Telephone Number [_]_]_]-[_]]_]-[_]]_]-[_]]							
Date Cleanup Initiated							
Date Cleanup Completed (or expected)							
Briefly describe the release prevention practices and policies (backup systems, containment systems, training programs, etc.) in place at the facility at the time the release occurred.							
Release No							

10.33	Indicate which of the prevention practices and policies listed in question 10.32 were ineffective in preventing the release from reaching the environment.						
	Release No						
10.34	Describe all repairs and/or preventive measures (management practices, operational changes, etc.) made to equipment or operations as a result of the release.						
	Release No						
10.35	Describe additional preventive measures that will be taken to minimize the possibilities of recurrence.						
	Release No						

APPENDIX	I:	List	of	Continuation	Sheets
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Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number (1)	Continuation Sheet Page Numbers (2)
4.02	1-3
•	
	
	
	
	
	
] Mark (X) this box if you attach a continuation s	heet.

APPENDIX II: Substantiation Form and Instructions to Accompany Claims of Confidentiality Under the Comprehensive Assessment Information Rule (CAIR)

If you assert one or more claims of confidentiality for information submitted on a Comprehensive Assessment Information Rule (CAIR) form, please answer, pursuant to 40 CFR 740.219, all the following questions in the space provided. Type all responses. If you need more space to answer a particular question, please use additional sheets. If you use additional sheets, be sure to include the section, number, and (if applicable) subpart of the question being answered, and write your facility's name and Dun & Bradstreet Number in the lower right-hand corner of each sheet. A completed copy of this form must accompany all submissions containing one or more claims of confidentiality. Failure to do so will result in the waiver of your claim of confidentiality.

EPA has identified six information categories as those which encompass all claims of confidentiality. These are: Submitter identity (h); Substance identity (i); Volume manufactured, imported, or processed (j); Use information (k); Process information (l); and Other information (m). Respondents who assert a CBI claim on the reporting form must mark the letter(s) (h through m) that represent(s) the appropriate category(ies) of confidentiality in the box adjacent to the question, and answer the questions in this form.

Respondents who assert a CBI claim for information submitted under CAIR must also provide EPA with sanitized and unsanitized versions of their submissions. The unsanitized version must be complete and contain all information being claimed as confidential. The sanitized copy must contain only information not claimed as confidential. EPA will place the second copy of the submission in the public file. Failure to submit the second copy of the form at the time the respondent submits the reporting form containing confidential information or after receipt of a notice from EPA thereafter will result in a waiver of the respondent's claim of confidentiality.

Please indicate the CAS Registry Number (if known) or chemical name (if the CAS Registry Number is not known) for the substance that is the subject of this form:
If you are reporting on a tradename, please provide the tradename for the substance that i the subject of this form: $Vor NTE (28 M - 2)$
Does this form contain CBI? [] Yes [X] No
If the answer to this question is yes, you must bracket the text claimed as CBI. Any unbracketed information may be placed in the public file.

[] Mark (X) this box if you attach a continuation sheet.

A. <u>All Claims</u> . Respondents who assert <u>any CBI claims must answer the following questions in addition to</u> the appropriate questions from sections B through G, below:
(1) For what period do you assert a claim of confidentiality? If a claim is to extend until a certain event or point in time, please indicate that event or time period. If the period indicated is longer than 2 calendar years, explain why. If different periods of protection are required for different categories of information, please so indicate.
(2) Has the information that you are claiming as confidential been or will it be disclosed to individuals outside your company?
[] Yes [] No
If so, what, if any, restrictions apply to the use or further disclosure of the information?
(3) Briefly describe the physical and procedural restrictions, if any, within your company on the use and storage of the information you are claiming as confidential. What other steps have you taken to prevent the undesired disclosure of the information by others?
(4) Does the information you are claiming as confidential appear or is it referred to in advertising, promotional, or safety materials for the substance or an end-product containing the substance?
[] Yes
Does it appear or is it referred to in professional or trade publications?
[] Yes
If so, indicate why the information should nonetheless be considered confidential.
[_] Mark (X) this box if you attach a continuation sheet.

(5) If the information you wish to claim as confidential were to be disclosed to the public by EPA, how much difficulty would a new competitor have in entering the market for this substance, considering such constraints as capital and marketing costs, specialized marketing expertise, or unusual production processes?
(6) Has EPA, another Federal agency, or a Federal Court made any pertinent confidentiality determinations for information regarding this substance?
[] Yes
If so, please identify the entity and provide EPA with copies of such determinations.
B. Submitter Identity (code h). Respondents who assert CBI claims for submitter identity must also answer the following questions:
(1) Approximately how many competitors do you have in the market for this substance or the final product containing this substance?
(2) What harm, if any, would result from EPA's disclosure of the submitter identity? Provide detailed descriptions of both the probable harm from disclosure and the causal relationship between disclosure and harm.
(3) If you have also asserted a claim of confidentiality for substance identity, what harm to your company's competitive position would result from disclosure of your company's identity if the substance identity were to remain confidential?
[_] Mark (X) this box if you attach a continuation sheet.

Chemica	ostance Identity (code i). Specific substance identity can be claimed as ential only if that substance identity is confidential for purposes of the TSCA all Substance Inventory. Respondents who assert CBI claims for substance identity so answer the following questions:
(1) (a	Has the substance been patented or disclosed in a patent in the U.S. or elsewhere?
	[] Yes
	If so, indicate the relevant patent(s) and the reasons why the substance identit should nonetheless be considered confidential.
	Patent Number:
(b) Exactly what information which does not appear in the patent would be disclosed to competitors by releasing the specific substance identity? Explain in detail how competitors could use this information.
(c) Since the patent provides protection for the substance, why are you asserting confidentiality?
(2) (a) In what form (i.e., product, effluent, emission, etc.) does this substance leave your site?
(b)	What measures have you taken to guard against the discourse of the substantial
(0)	What measures have you taken to guard against the discovery of the substance identity by others?
па	rk (X) this box if you attach a continuation sheet.

(2) If you have also claimed substance identity as confidential and EPA keeps confidential the link between the substance identity and the use data, the substance identity will not be associated in any way with the use data. In this case, what harm to your company's competitive position would result from disclosing the use data? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
(3) If you have claimed neither submitter nor substance identity as confidential, what harm, if any, would result from release of your use information? Provide a detailed description of both the harm and the causal relationship between disclosure and harm.
F. <u>Process information</u> (code 1). Respondents who assert CBI claims for process information must also answer the following questions:
(1) If you have also claimed submitter identity as confidential and EPA keeps confidential the link between your company identity and process information, your identity will not be associated in any way with this information. In this case, what harm to your competitive position would result from disclosing the process information? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
(2) If you have also claimed substance identity as confidential and EPA keeps confidential the link between the substance identity and the process information, the substance identity will not be associated in any way with the process information. In this case, what harm to your company's competitive position would result from disclosing the process information? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
[_] Mark (X) this box if you attach a continuation sheet.

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[_] Mark (X) this box if you attach a continuation sheet.
(4) If you have also claimed substance identity as confidential and EPA keeps confidential the link between the substance identity and the item, the substance identity (other than category name) will not be associated in any way with the item claimed. In this case, what harm to your company's competitive position would result from disclosing the item? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
(3) If you have also claimed submitter identity as confidential and EPA keeps confidential the link between your company identity and this information, your identity will not be associated in any way with the item claimed. In this case, what harm to your competitive position would result from disclosing the item? How could a competitor use this information? What is the causal relationship between the disclosure and the harm?
(2) Describe with specificity the harm to your company's competitive position which would result from disclosing the information.
information" category, must also answer the following questions: (1) Is the item confidential in and of itself, or is it confidential because it will reveal some other confidential information, whether or not that other information is reported on this form? If the latter, what is the information that will be revealed, and how would disclosure of the item in turn lead to disclosure of the other information?
G. Other information (code m). Respondents who assert CBI claims using the "other
(3) If you claimed neither submitter nor substance identity as confidential, what harm, if any, would result from release of your process information? Provide a detailed description of both the harm and the causal relationship between the disclosure and the harm.

	NAME	SIGNATURE	DATE SIGNED
- (t		(
	TITLE		TELEPHONE NO.
٠			
	•		